Laboratory Notebook, Cat. 30,095

This notebook contains only a few dated entries, covering the period March 1874-January 1875. Most of the entries are by Charles Batchelor and are primarily calculations and drawings of component parts of instruments relating to the domestic, automatic, and printing telegraph systems. In the middle of the volume are blue stains, apparently made by the disks used in Edison's recording telegraphs. A list of six names and addresses can be found near the end of the volume. The cover is labeled "Vol. 5." The book contains approximately 200 unnumbered pages. Many leaves have been torn out.

THE REDUCTION RATIO FOR THIS DOCUMENT IS 18:1

Parts wanted for copying Lines

50	small 10 tooth pinion		10 Finished
50	large 14 " "	Mon	10
50	" " 10 " "	"	10
100	small shafts	"	
50	drum " "	Mon	
50	second wheel shafts	Mon	
50	drums		10
50	80 Tooth wheel		
50	100 " wheel		
50	60 " "		
50	escape wheels		
50	pallets		
60	jam nuts	Mon	
160	girders		
50	paper drums		
50	feed rollers		
60	shifters		
60	Nicks		
60	" springs		60
50	duble taper pins		
50	paper feed holders		
50	long shelded screws for paper feed		Mon
50	short " "		Mon
50	feed levers		
120	frames		
480	8/32 screw		Mon
120	45 " "		Mon

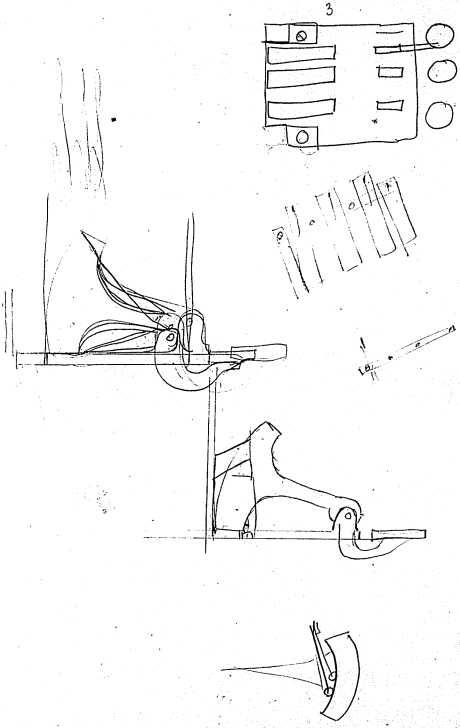
Switch

Switch stud with shelde 60 wanted 87 received

" " with out 60 "

Rubbed wires 30 w 30 ft

Binding posts 120 w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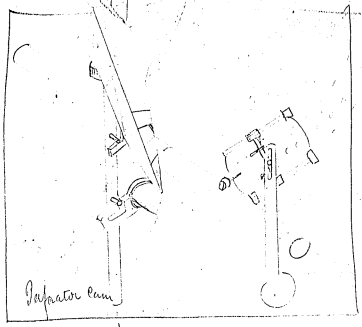
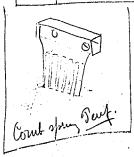
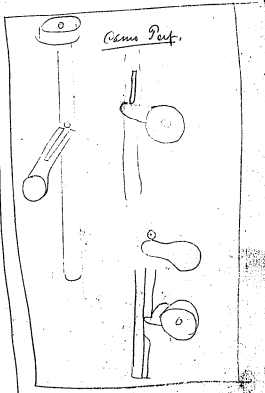
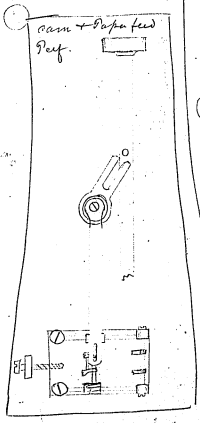
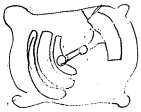
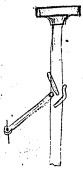

Separator Cam

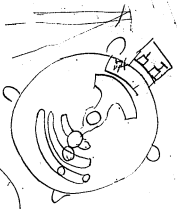

Count spring Perf.

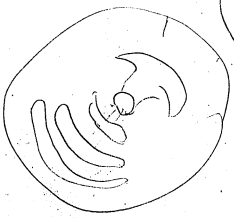

Cams Perf.

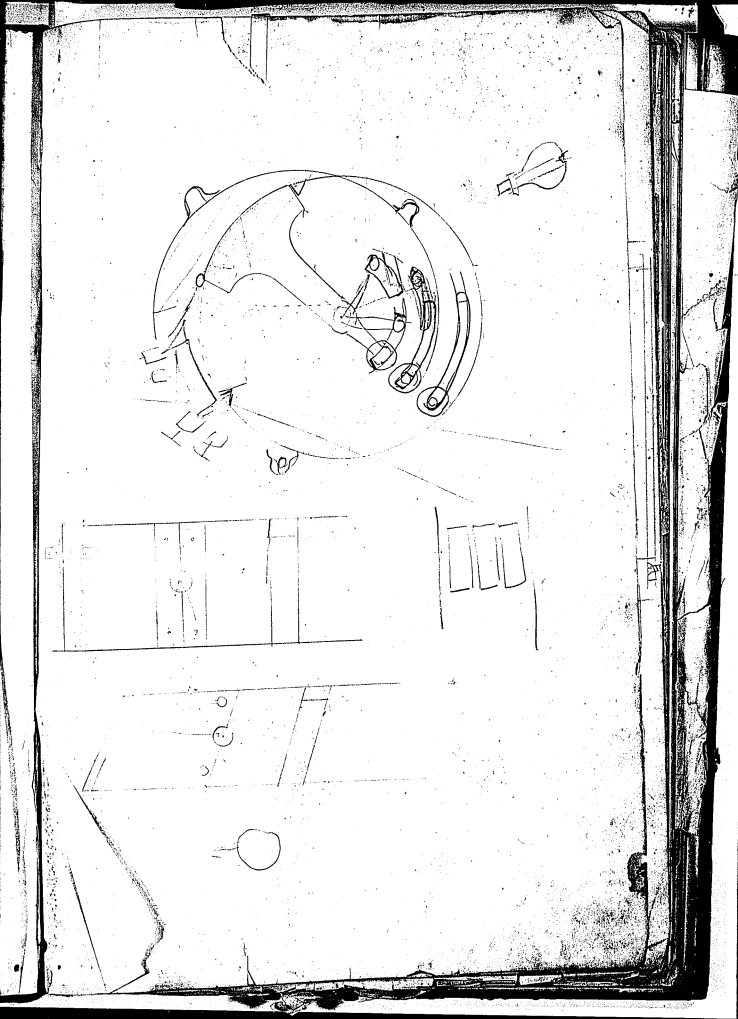

Cam + Paper feed
Perf.











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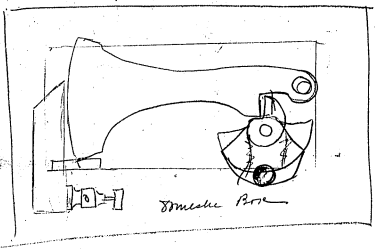
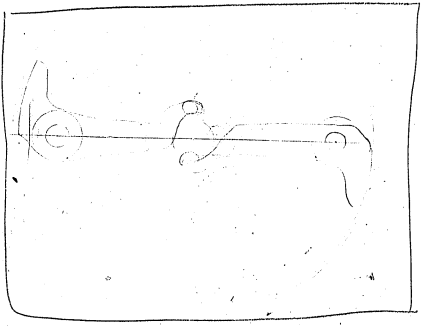
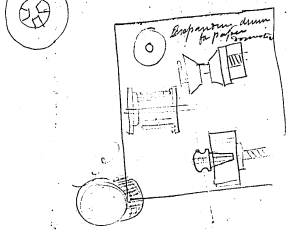
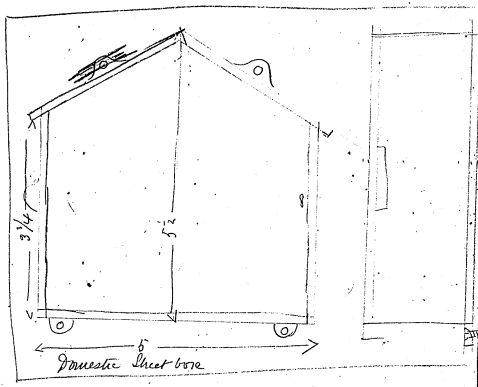
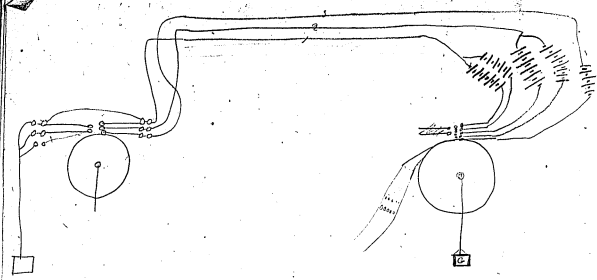


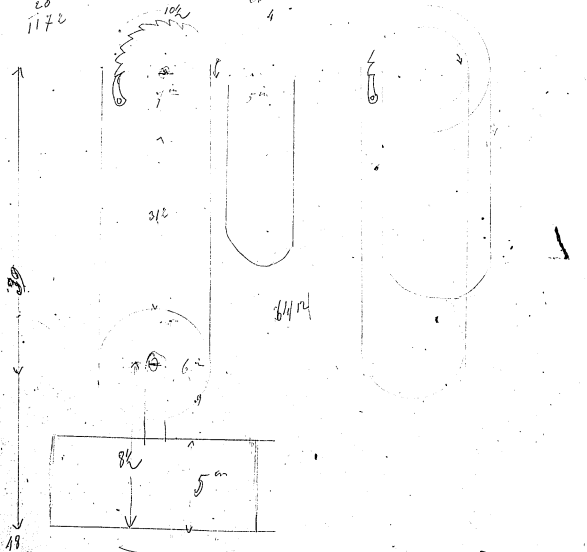





3 1/4
5 1/2
Domestic Sheet-Iron



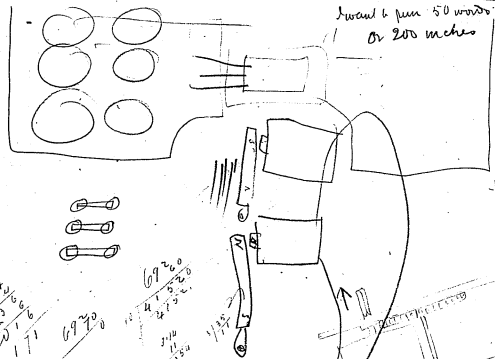
78
10k
7
20
1172



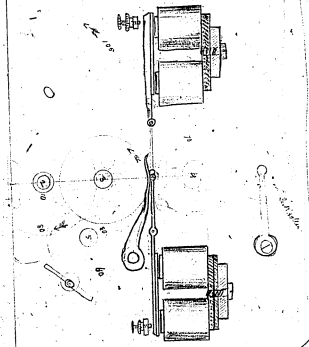
Hi Mike & Wendy,
so here's the drawings I've been working on
most recently. Hope you're well!
Best, Jessie

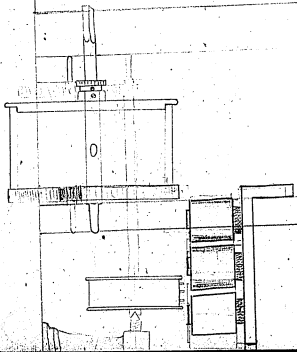
Da / Jessie Lee Gould
[illegible]
[illegible]
[illegible]

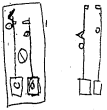
4 inches equals 1 section of
Morse letter perforation
Record is from 50 words per minute
1 or 200 inches

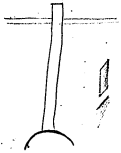


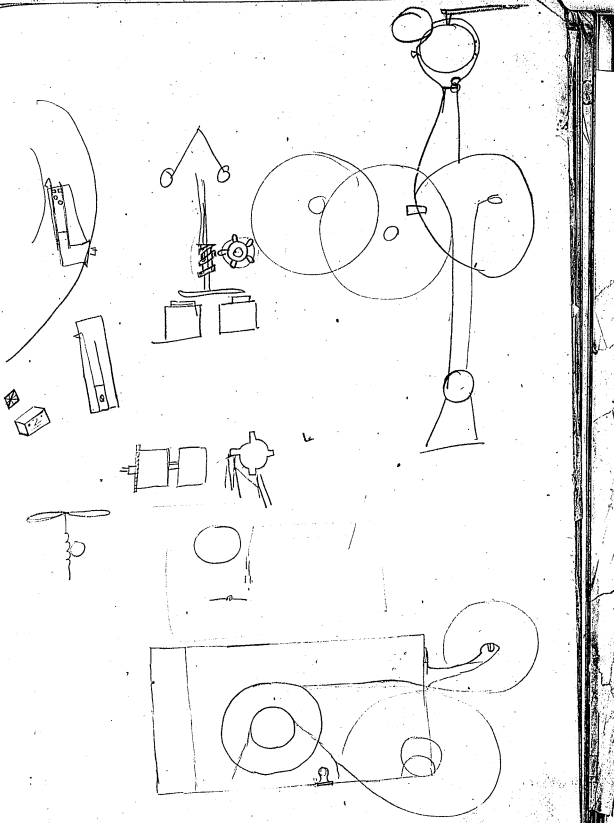
Edison's new Stock Printer





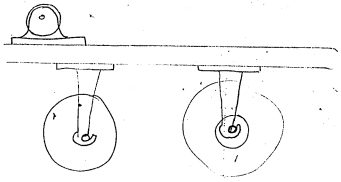






Governor for Ord Cutter

1 = 200
200
200
11/6 000
5-46



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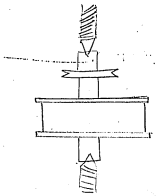
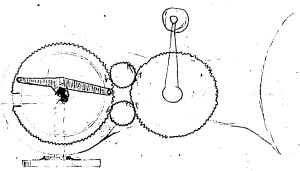
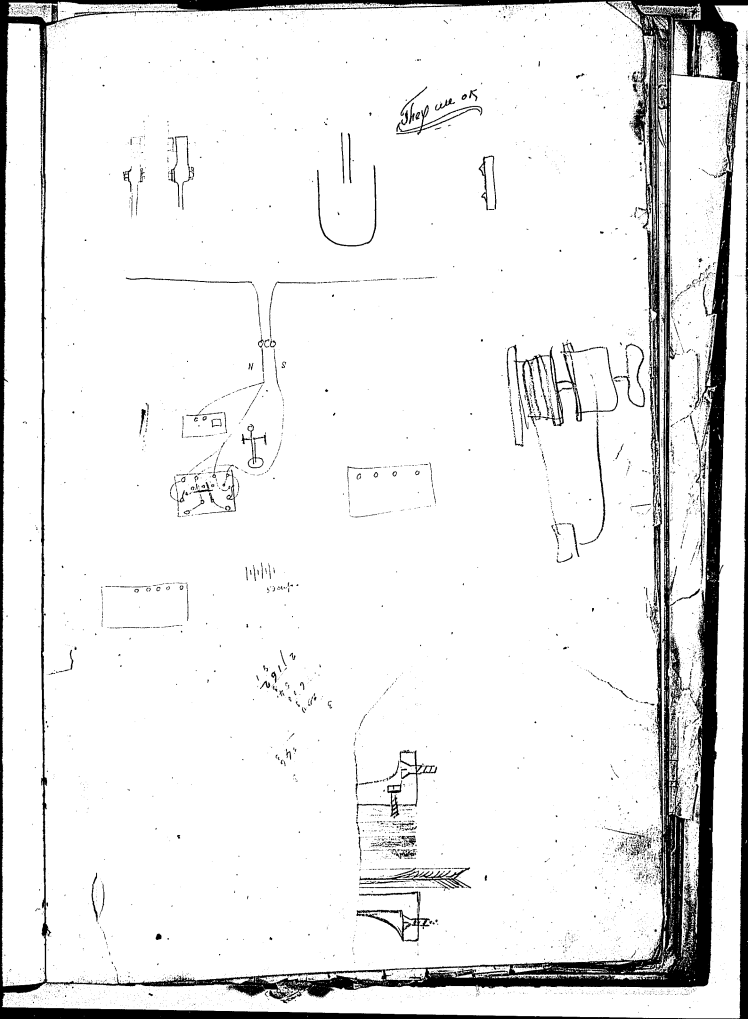
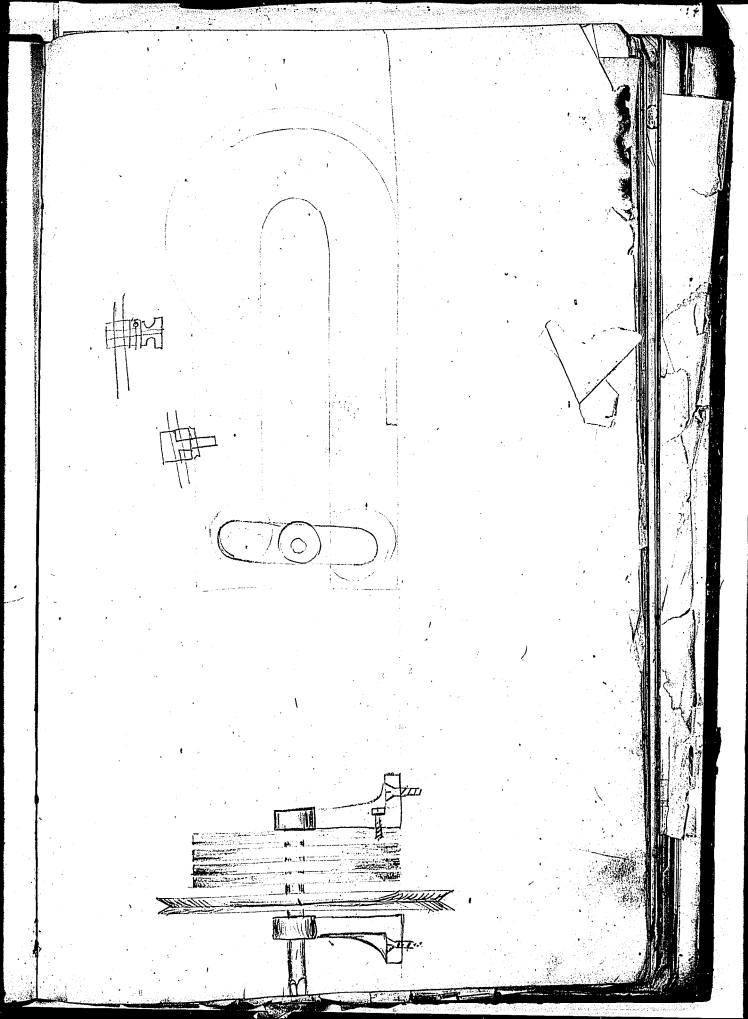
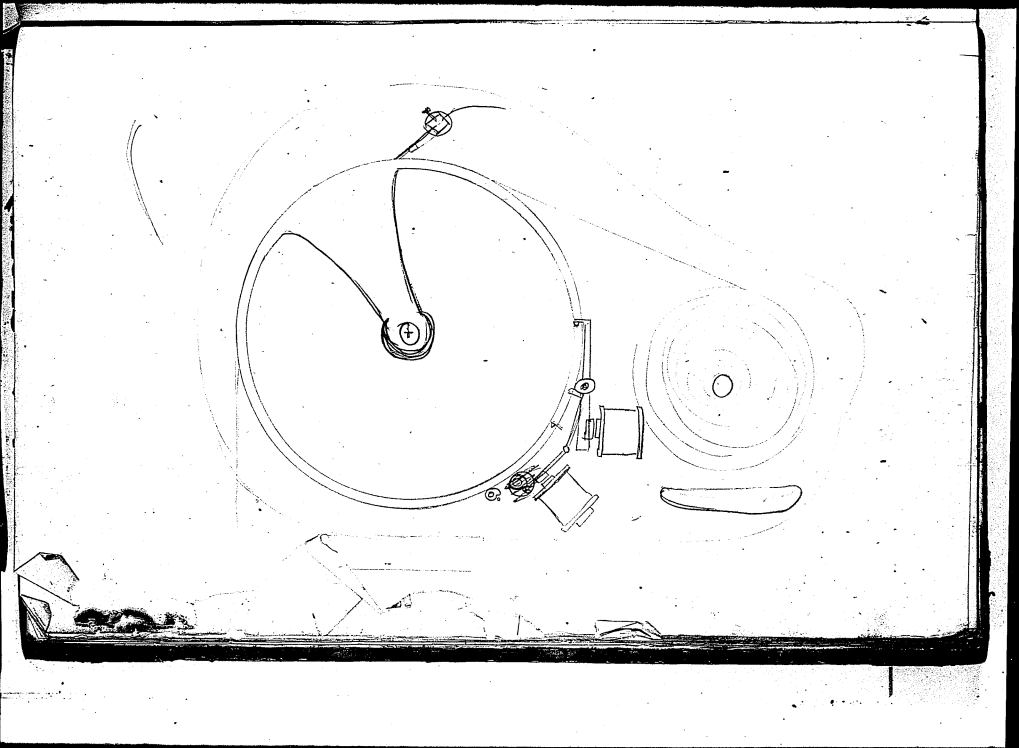
2 = 5-4 - 11-07-3.

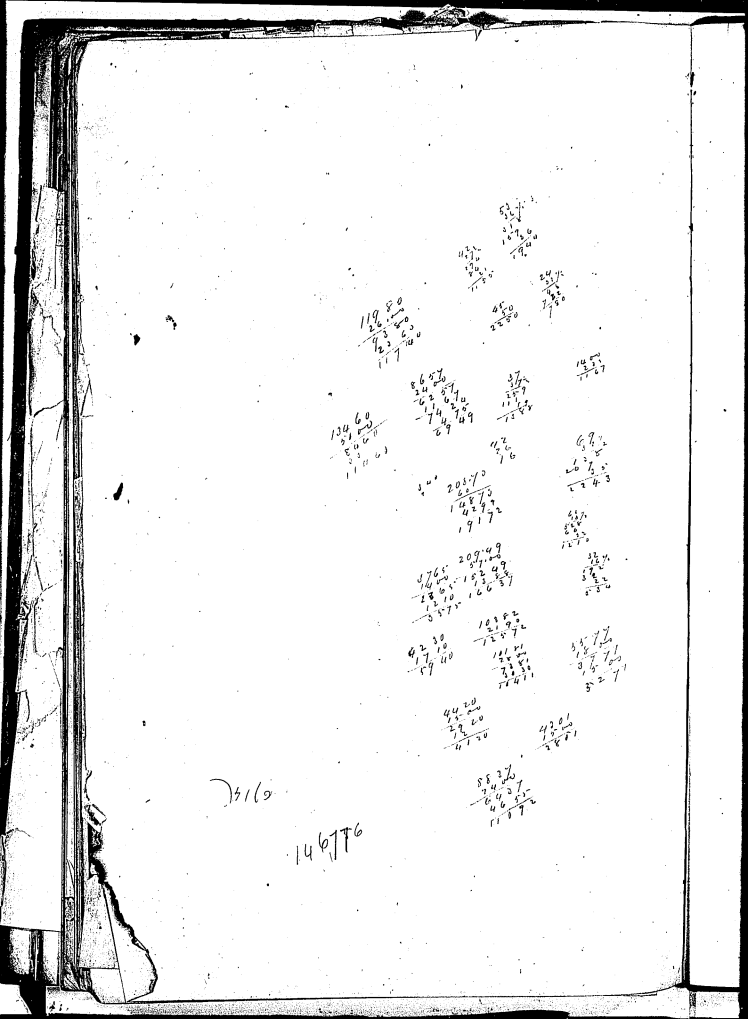


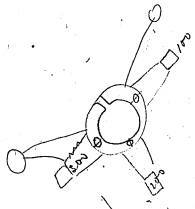


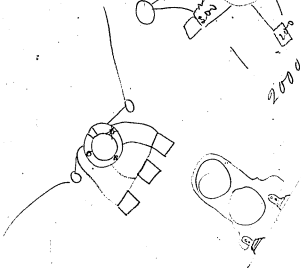

Shop use only

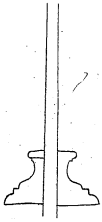


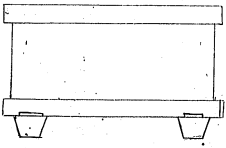


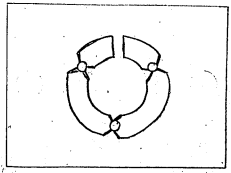


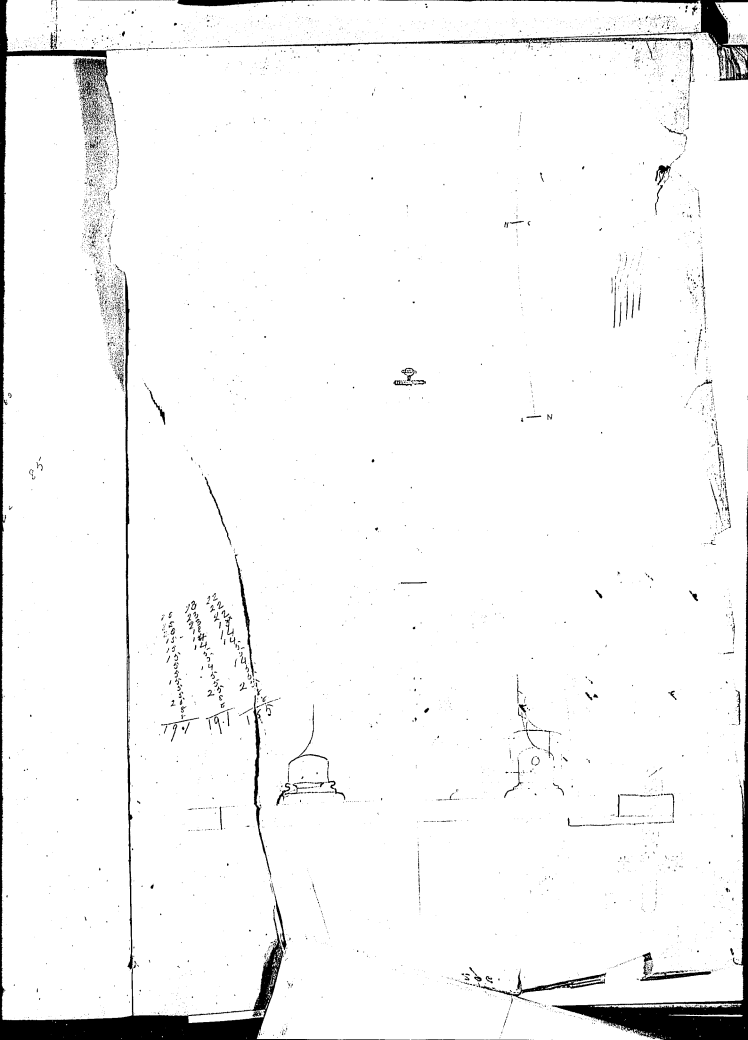


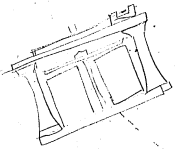


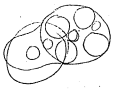


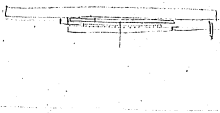


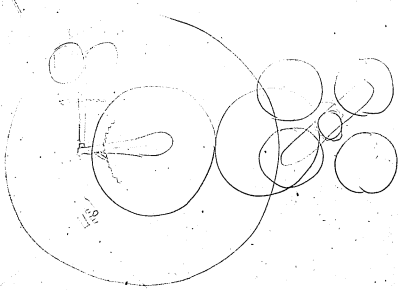


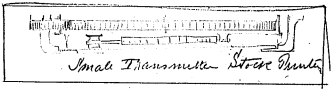




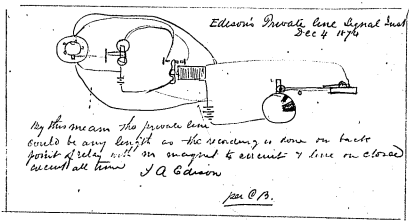


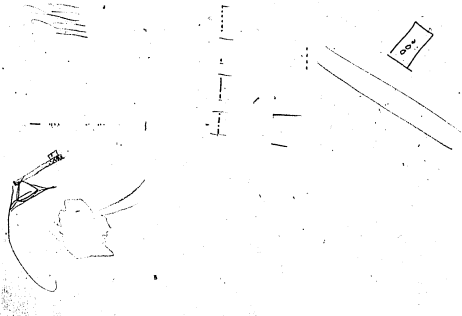


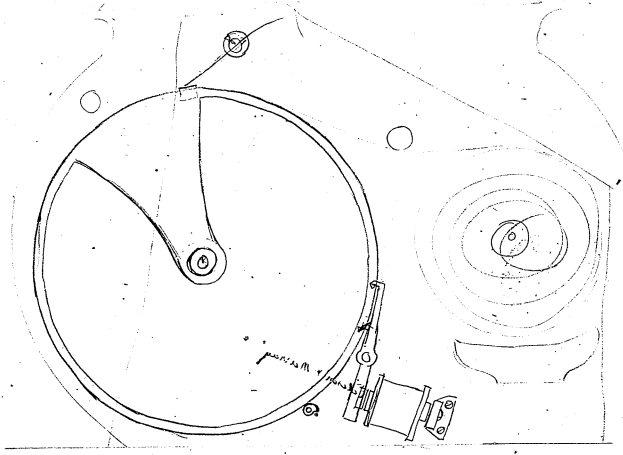


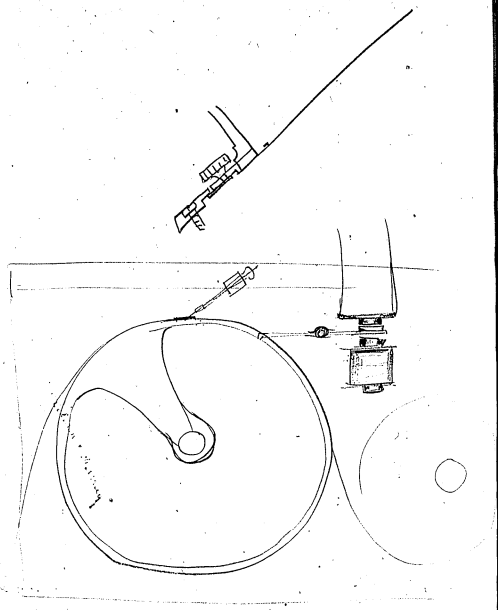


Small Transmitter Stock Ticker

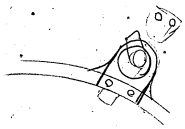

Edison's Private Line Signal Instr
Dec 4 1874
By this means the private line could be any length as the receiving instrument will respond & record a line or closed circuit all time
T A Edison
per C B.

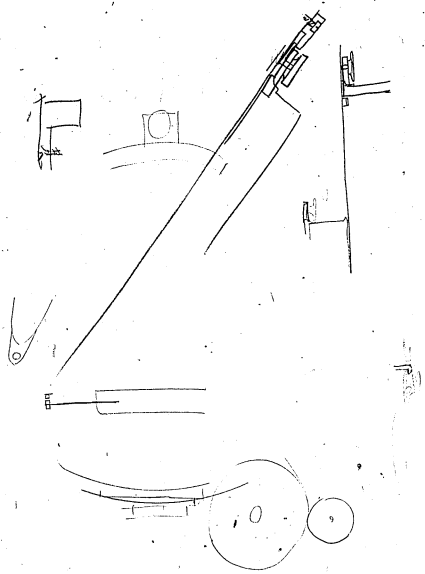


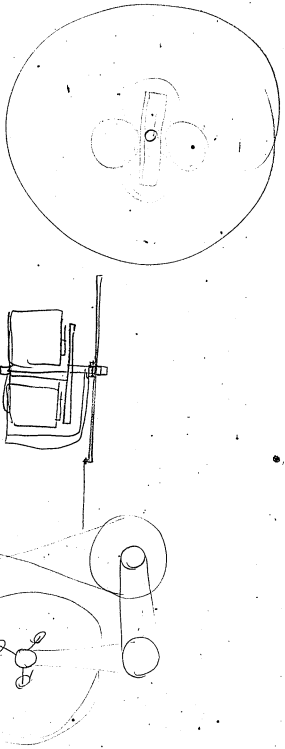


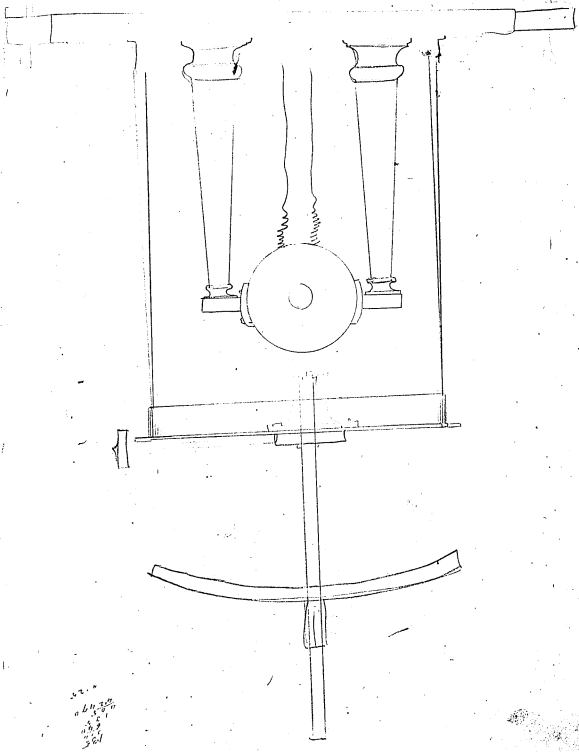


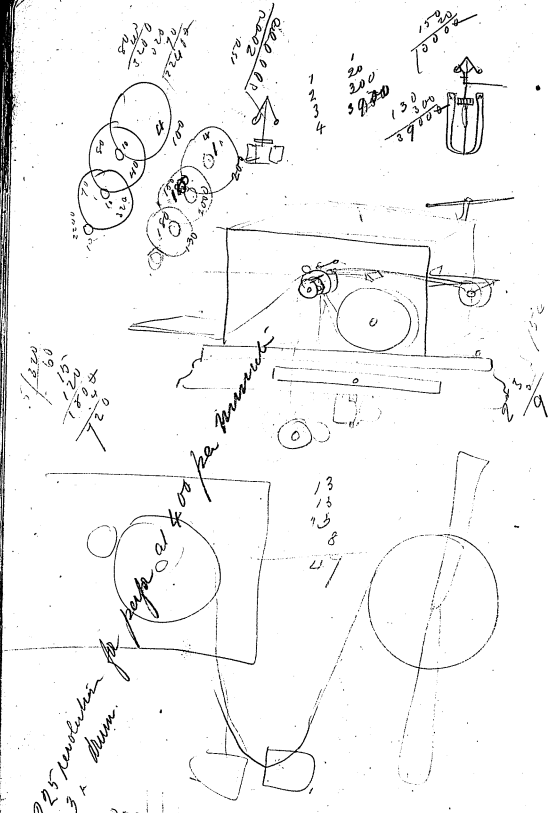
Plan Perforator

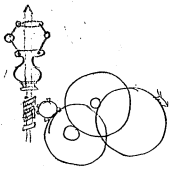


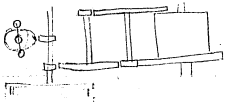


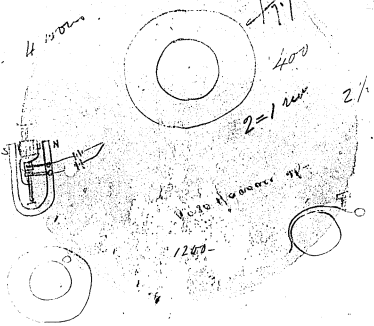


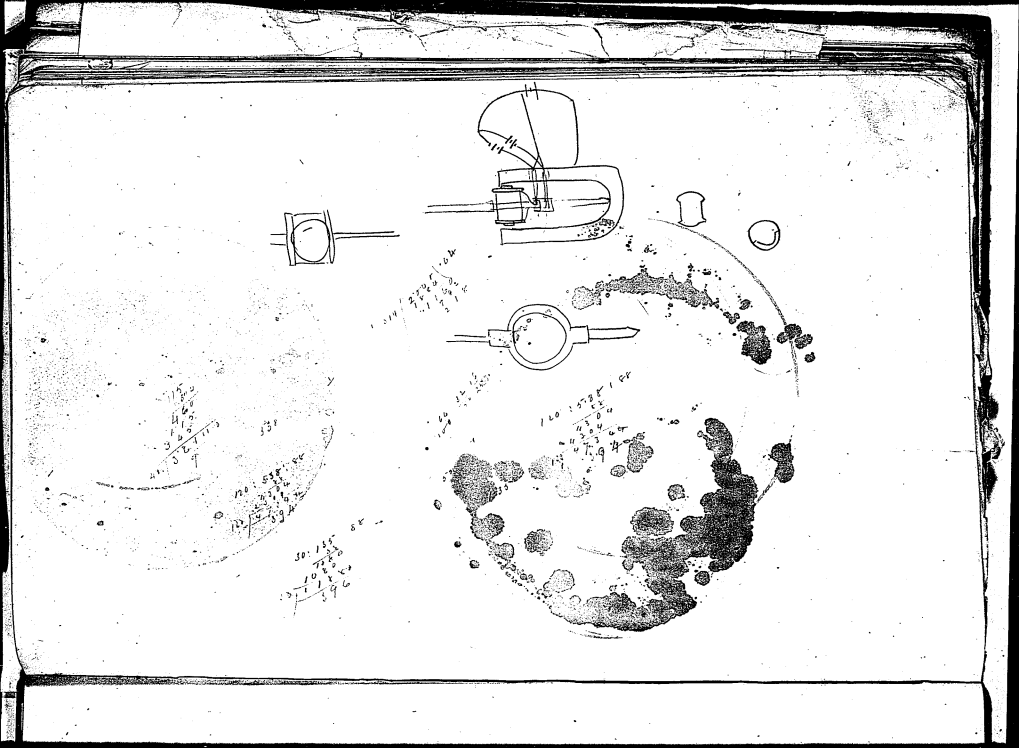



225 revolutions per minute









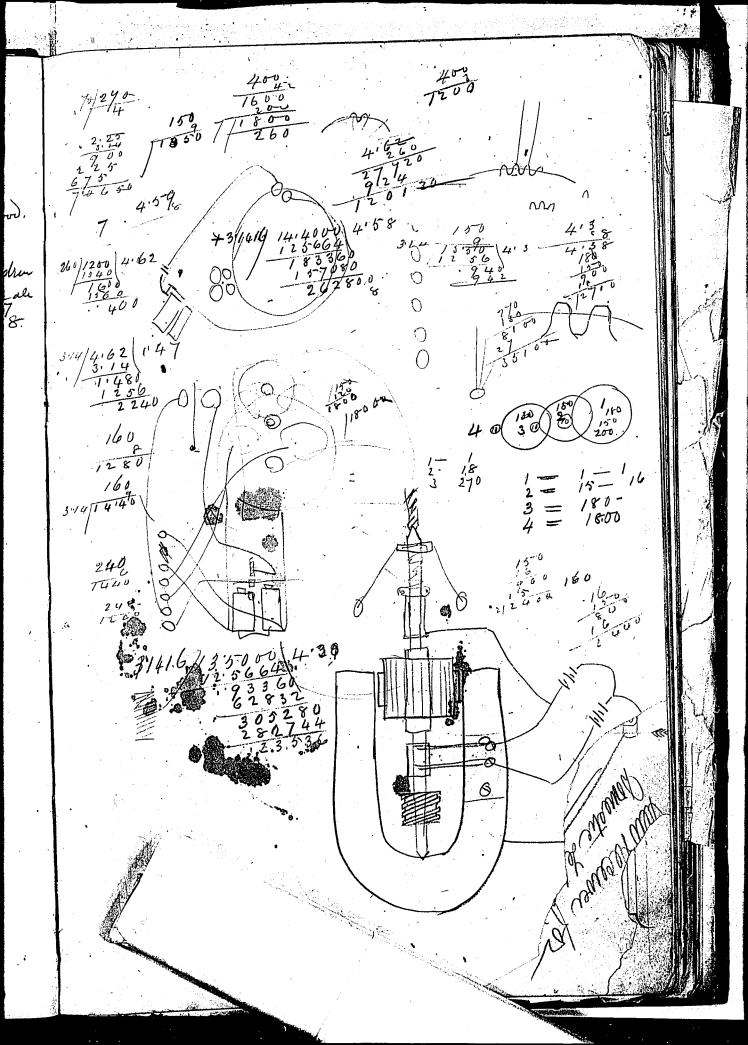
60 inches = 20 words recev Perf drum 2¼ punch
270 inch = 70 words perf.

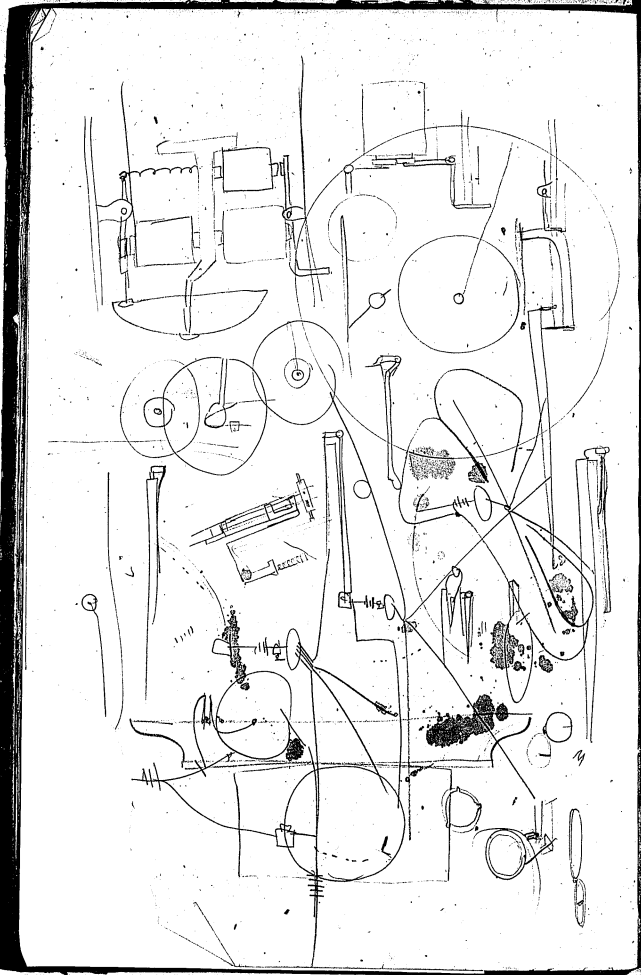
42½ inches = 1 word of Perf.
3 inches = 1 word of Rec

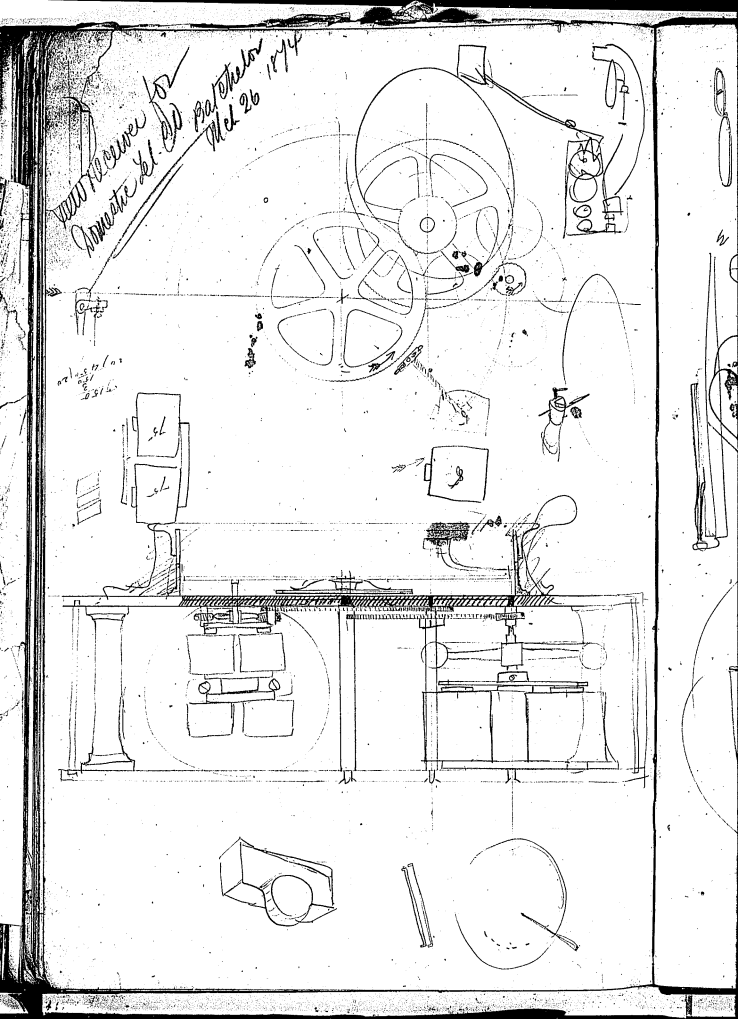
400 words per minute 2¼ drum Perf: 7 inch per revolution 4½ per word.
= 260 revolutions

400 words per minute at 260 revs, 3in per word per = 1·47 diam of drum

		Drum on axle
1 gear. 1 turn per minute 160 teeth 09 pitch	diam 4·59	4·67
2 gear. 16 " " 150 " 09 "	" 4·30	4·38
3 " 240 "		
4 "		

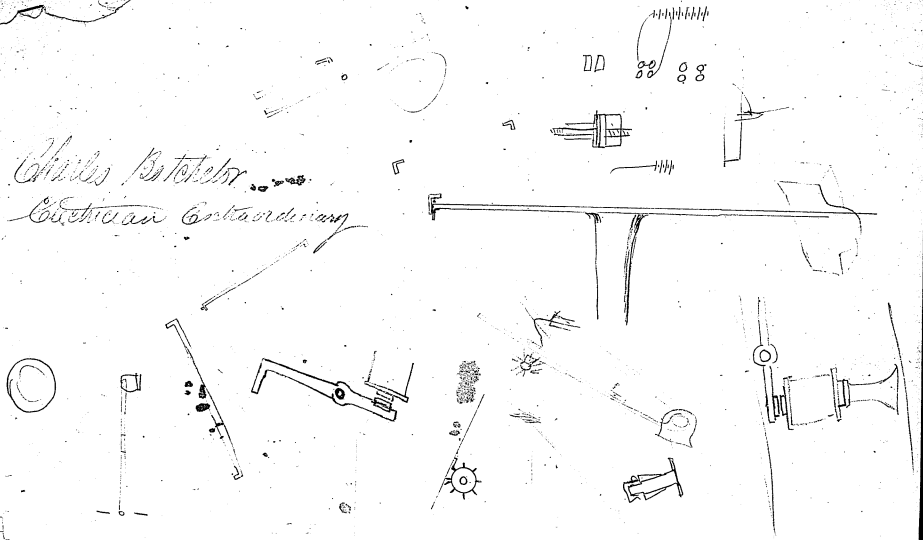


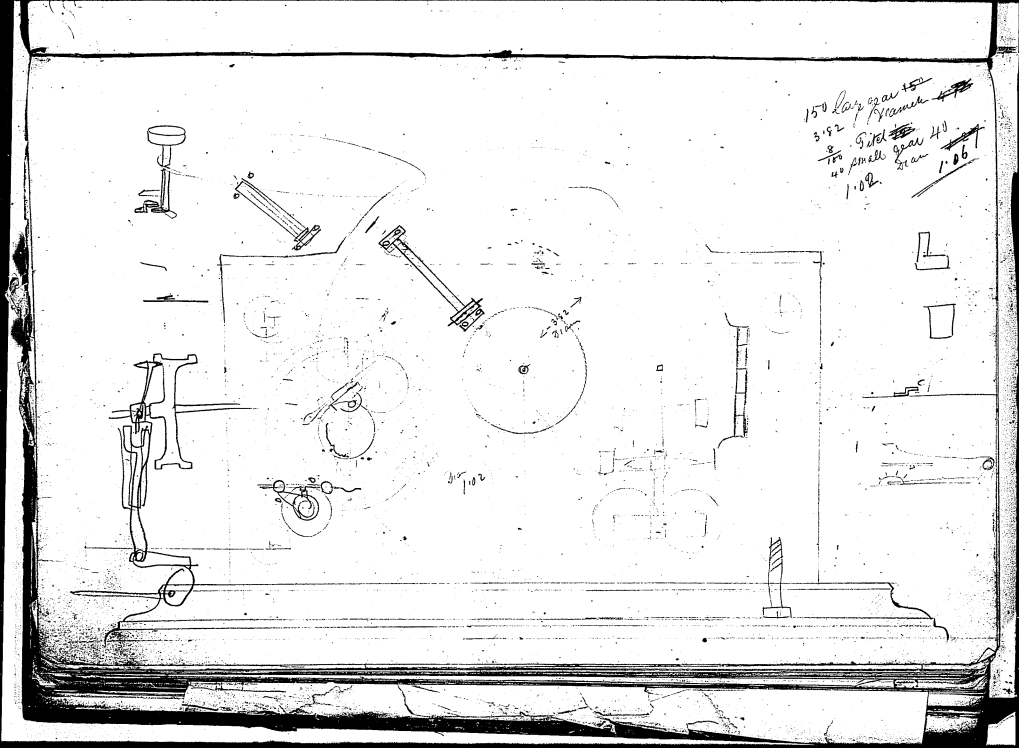


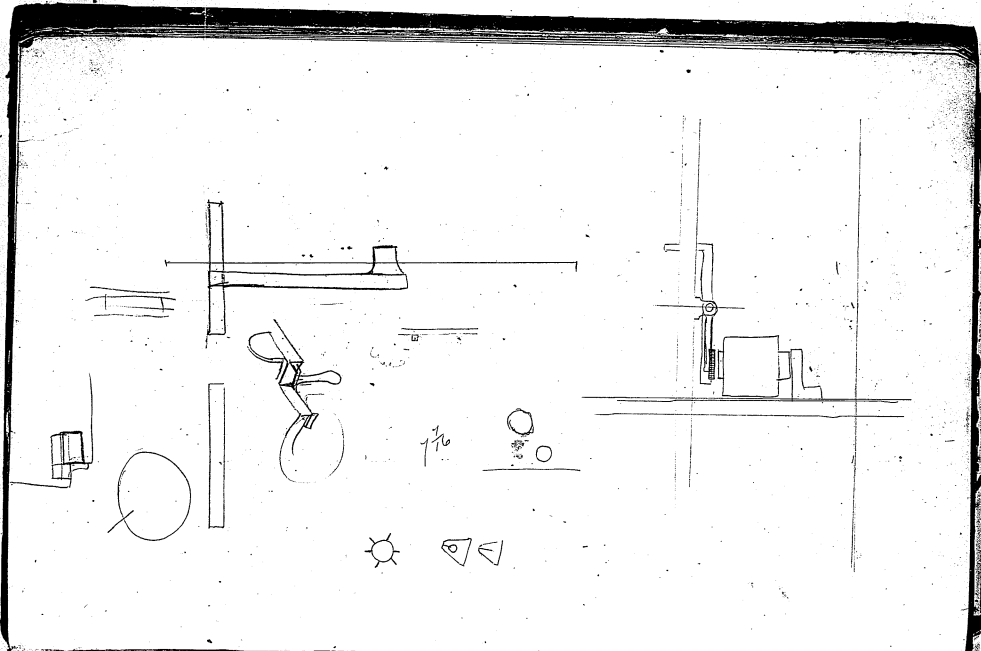


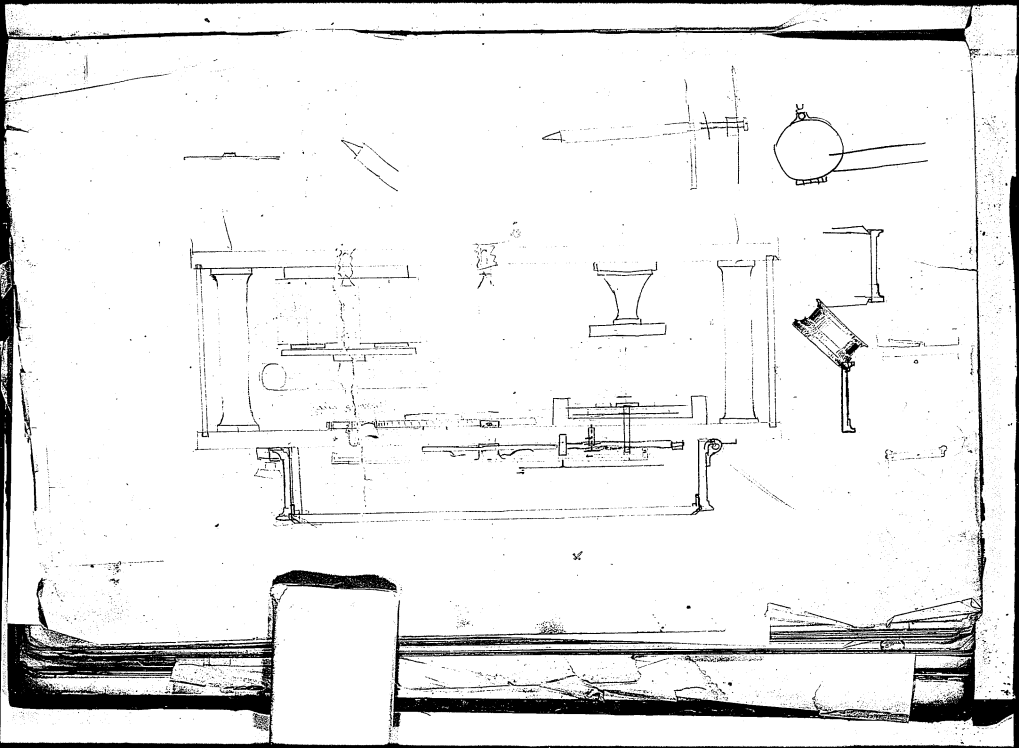
Charles Batchelor.

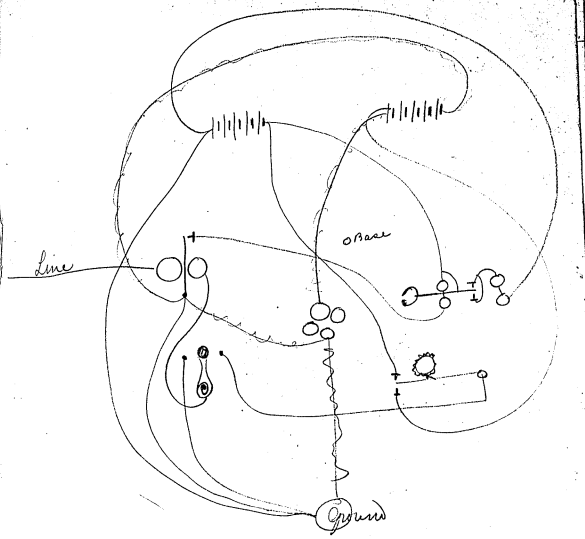
Electrician Contributing

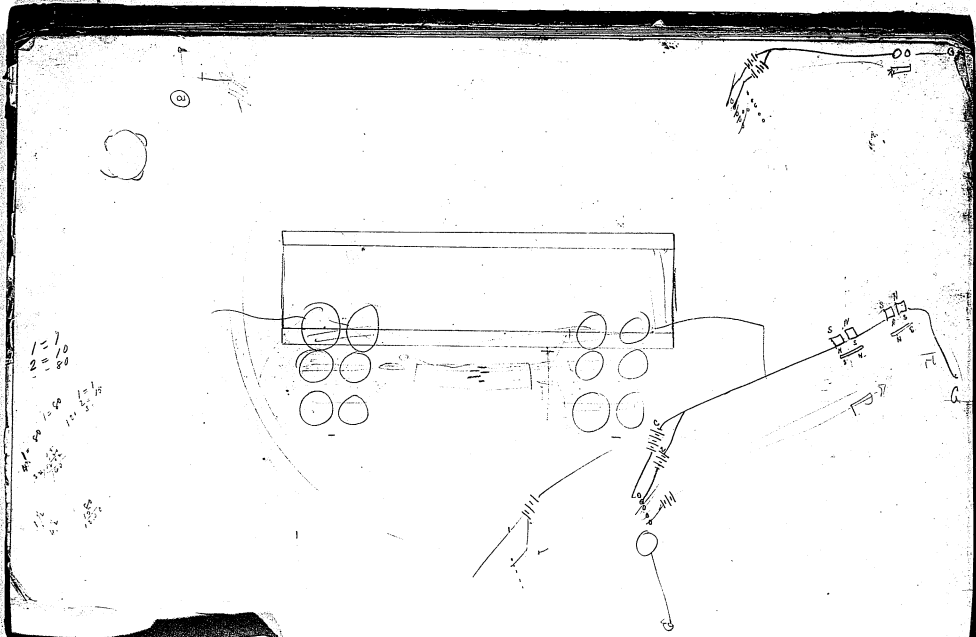


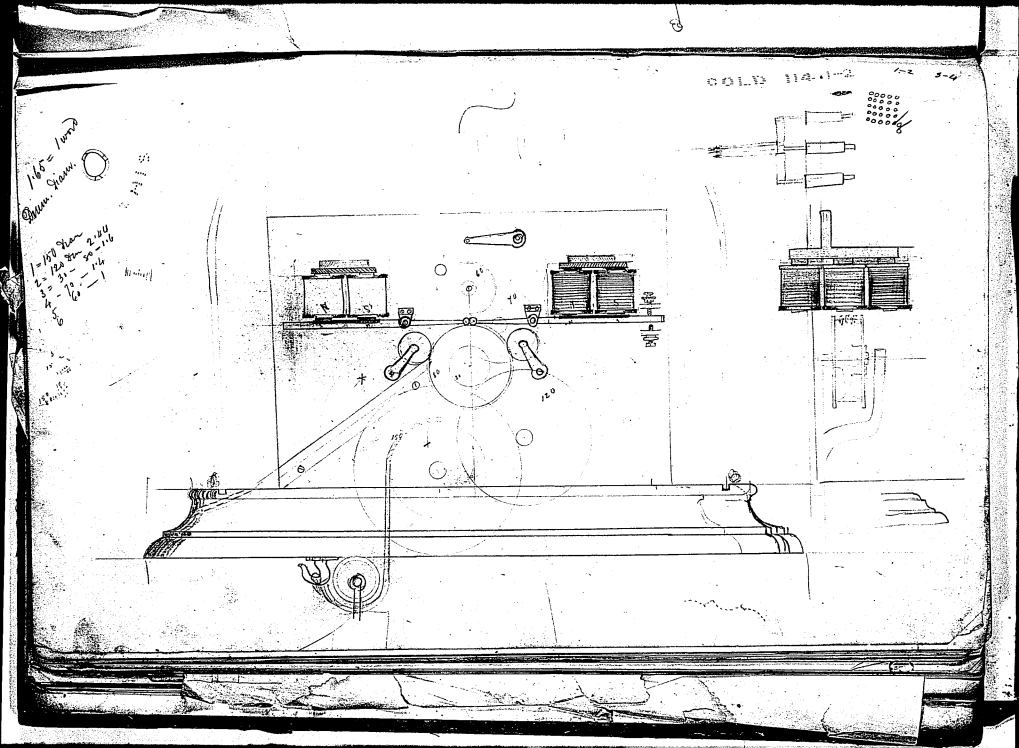

150 Lazy gear
3·92
8
40 Pinion gear
1·02
40 Pinion gear
1·06
3·92
1·02





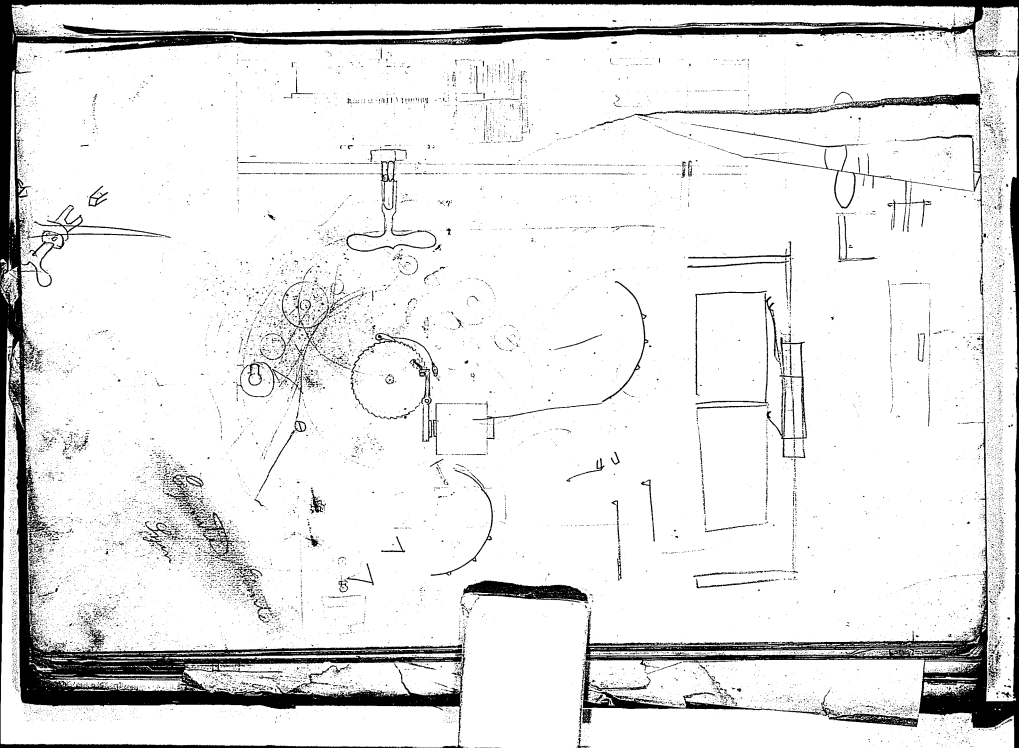

Line
Base
Ground

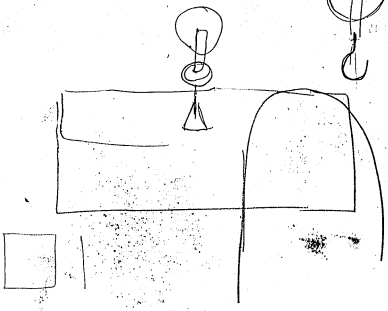


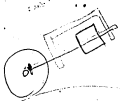

COLD 114.1-2

[ITEM FOUND IN BOOK]

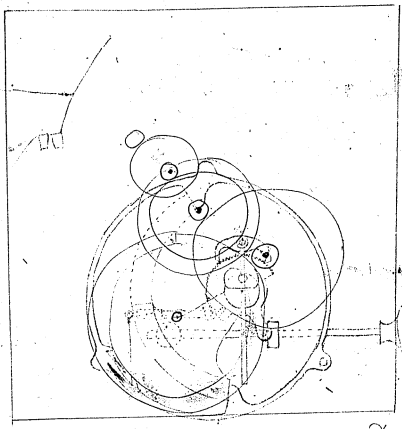
19 Adj. Hand stamps
80 Paper punch scissors
22 Bandages
16 Chuck pads
Oscillating fan 93
40 Desk pads
200 64 Hand Co.





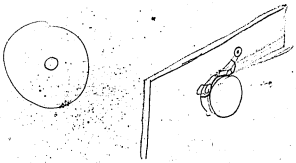


25
25
50
16
34

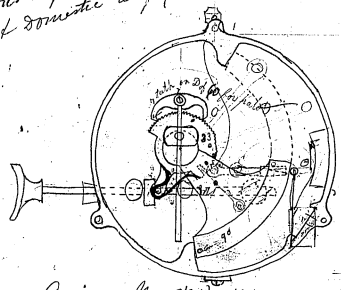


100 mm

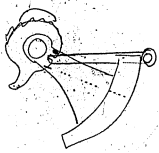
Drum 9" diam
7½ ends + wood

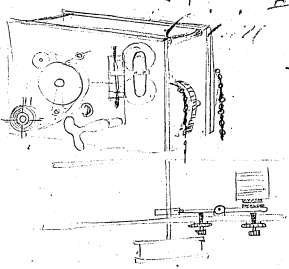


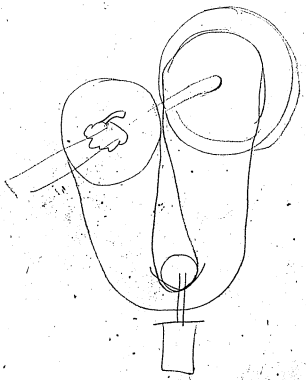
Edisons Signal box for
Fire & Domestic telegraphing

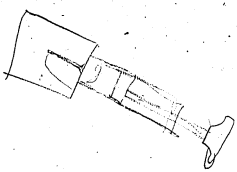


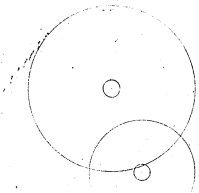
Designed Nov 22nd 1874
Chas Batchelor



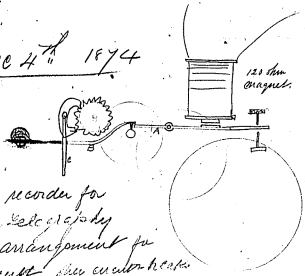




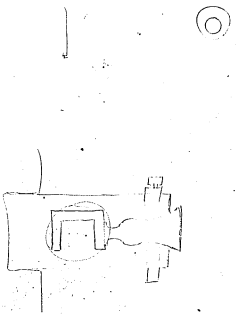




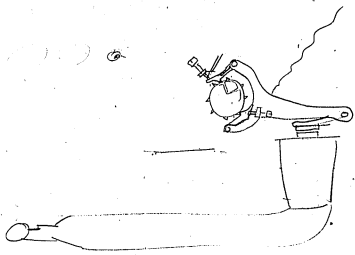
Dec 4th 1874

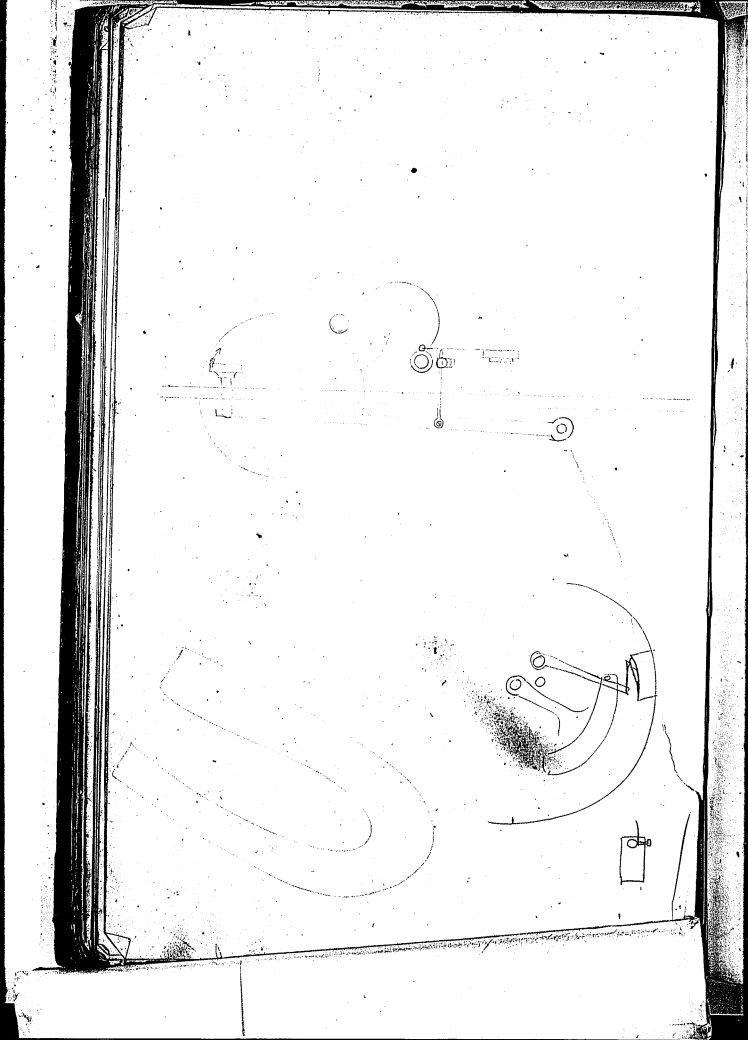


Edison's recorder for
Domestic telegraphy
release arrangement for
closed circuit. Main circuit keeps
the armature up against stop B & relieves
C



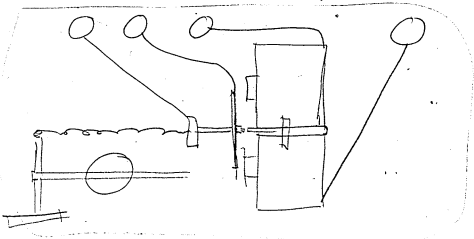
5 4
2 2
9 5
8 4

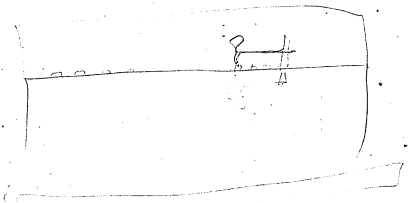


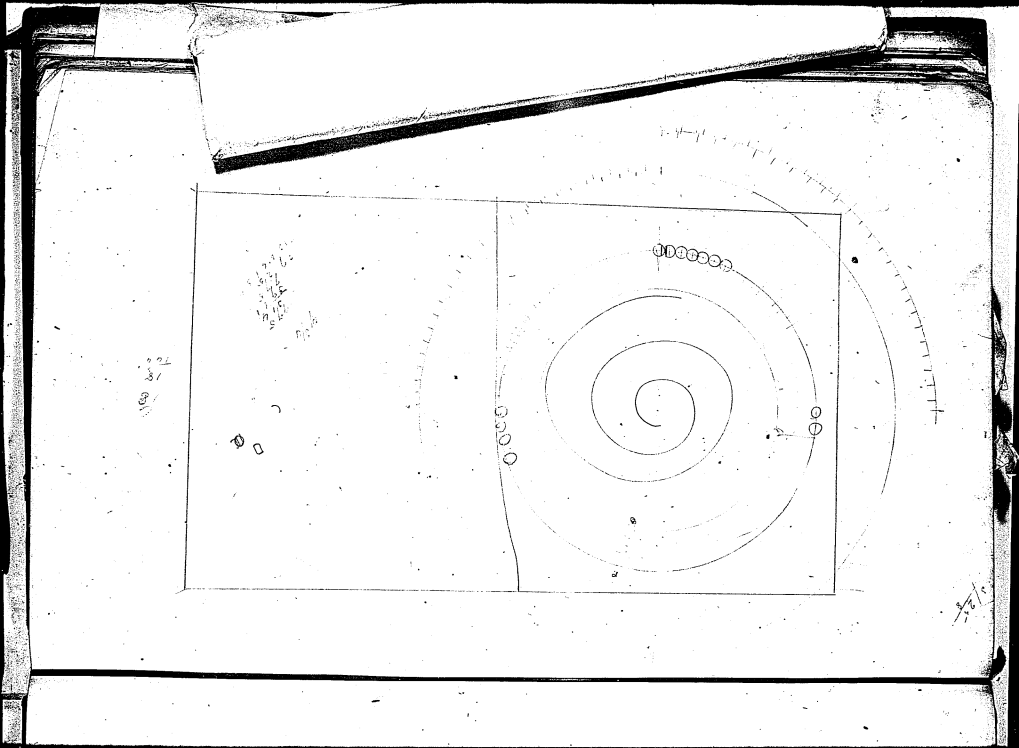


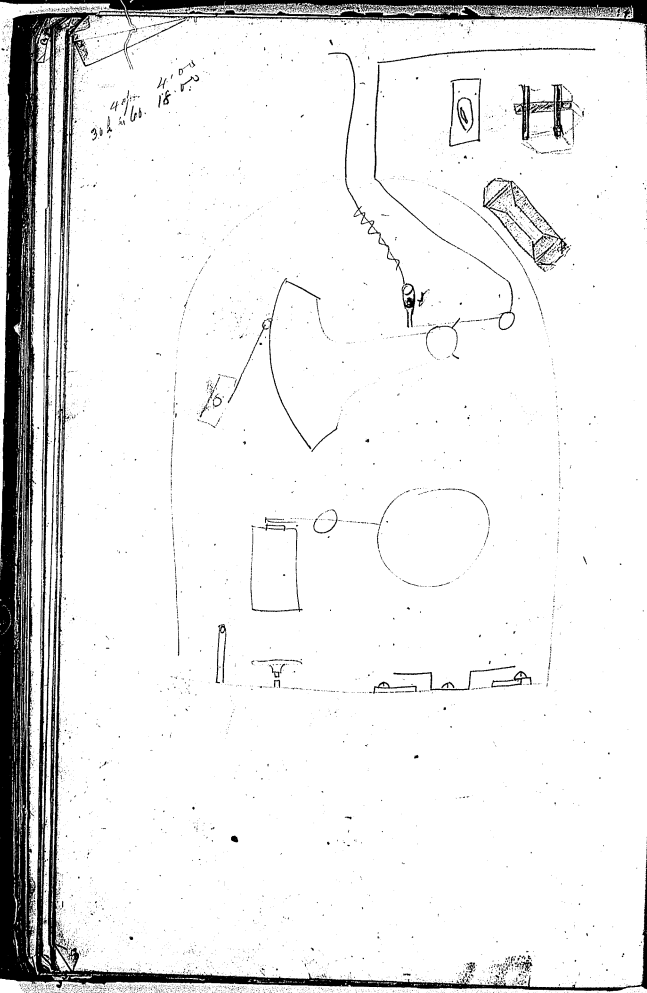
Dec 18. 1874

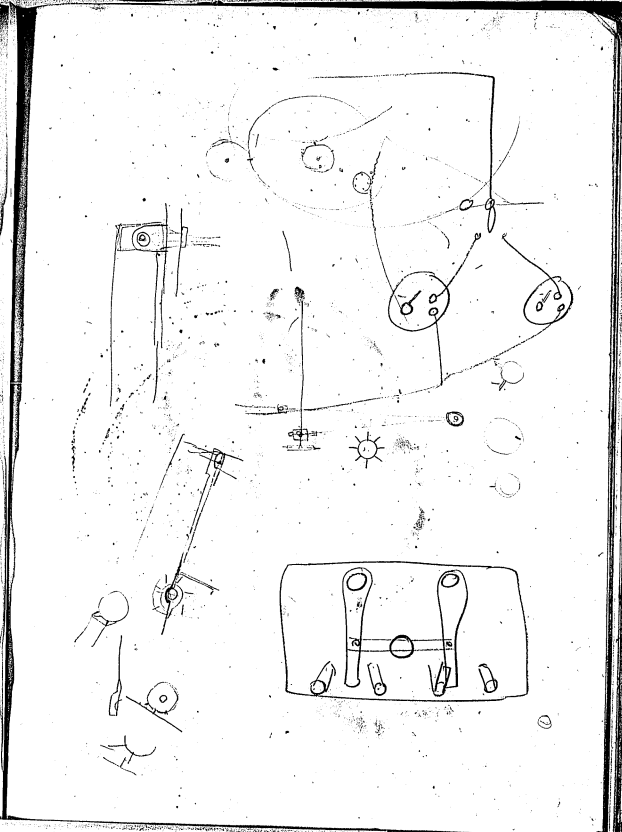
Connections for Short core Quadruplex Relay

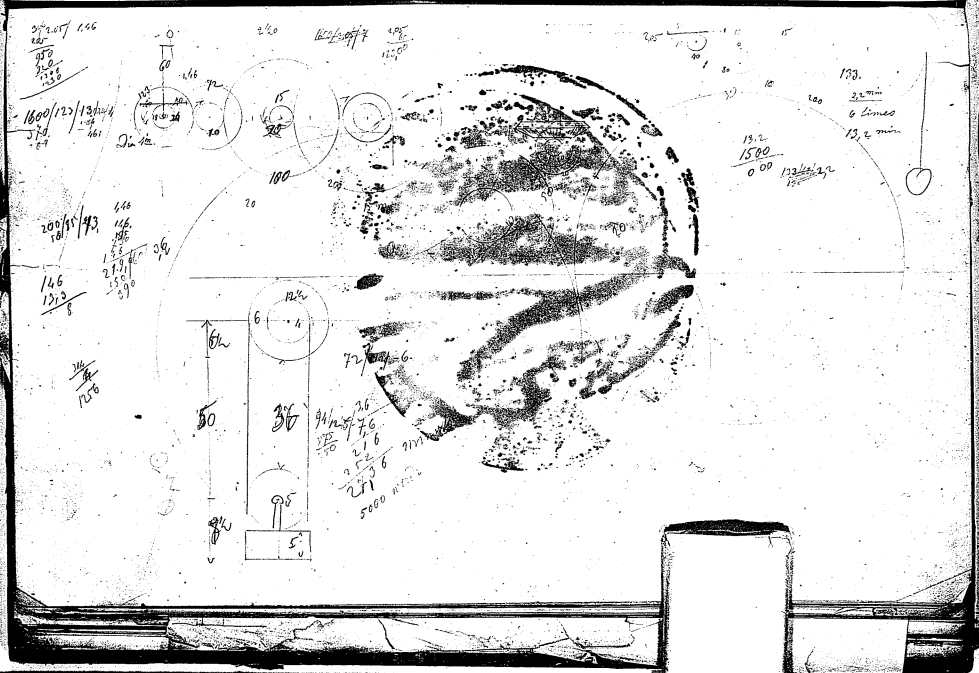


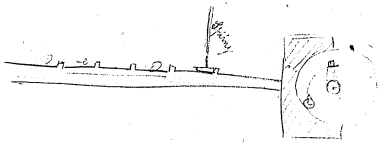


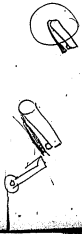


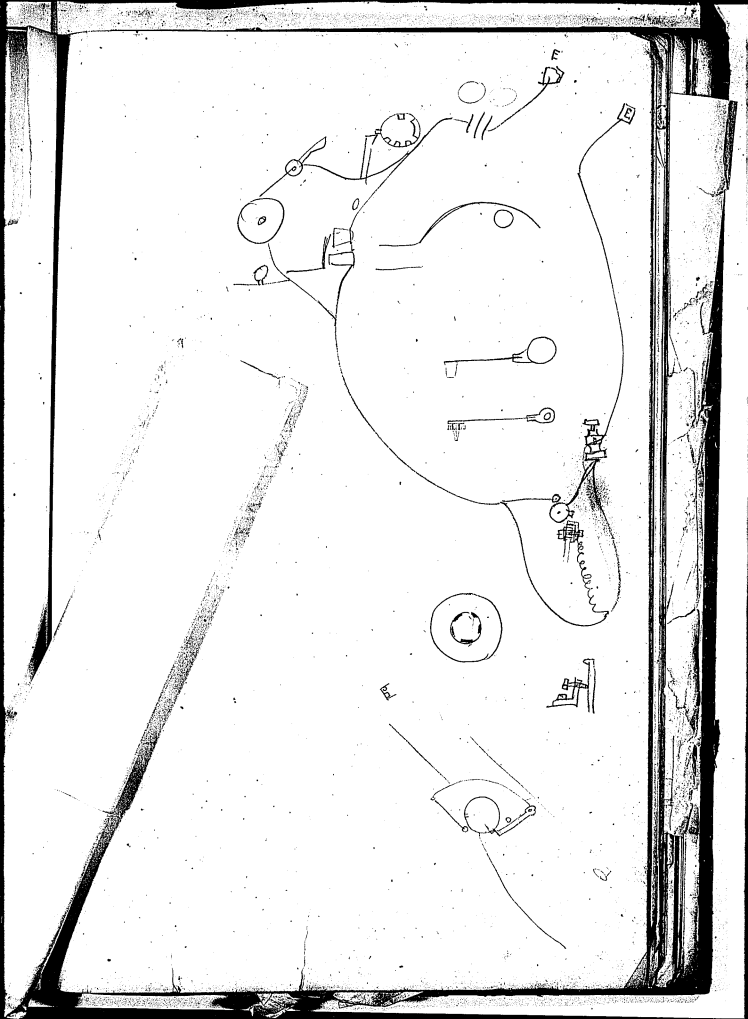










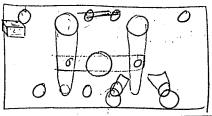


4 plates of each metal 4" long + 1" wide
with binding post on

Iron
Brass
Copper
Tin
Zinc
Platina
Nickel
Silver
German silver
Lead
Gold
Magnesium

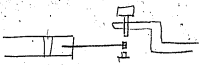
8 Keys on bases weighted
4 Keys on bases weighted, tack pointed -

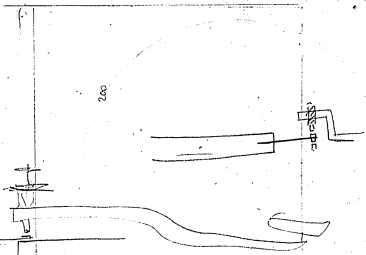
1 Double Switch for Armature.

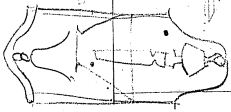


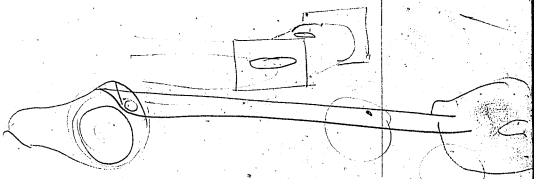
$2.00

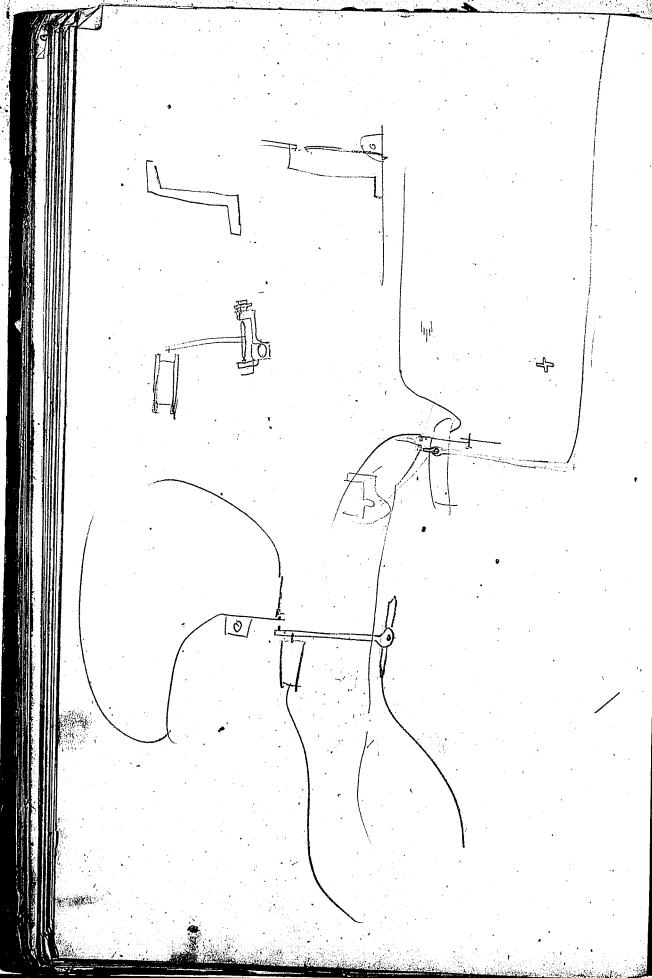
1 Paper Weight to take 1" 3/4 or 1" paper

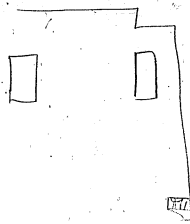



200
40



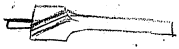


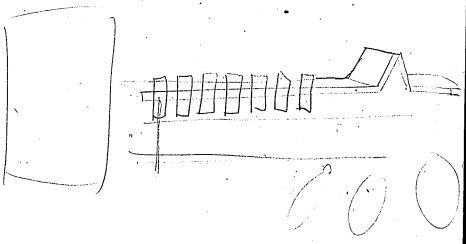


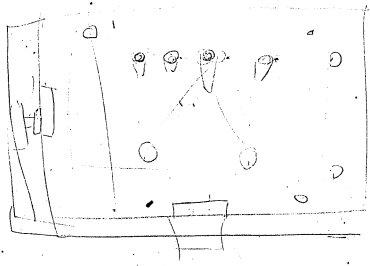


70
10
6
36

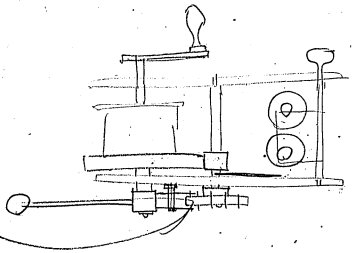
400
30
5
150

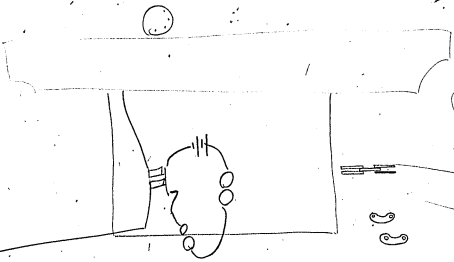


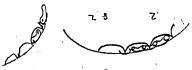




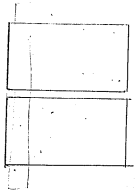
Edisons new Kinetoscope Proposal

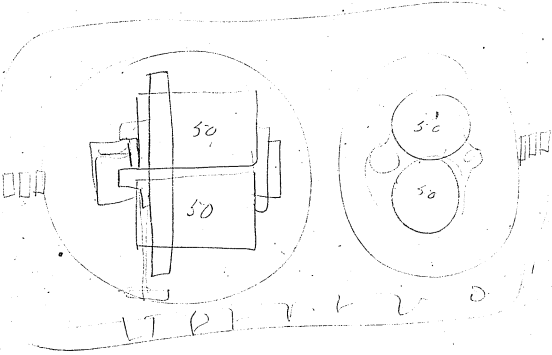






Cou 2 3/16




50
50
50
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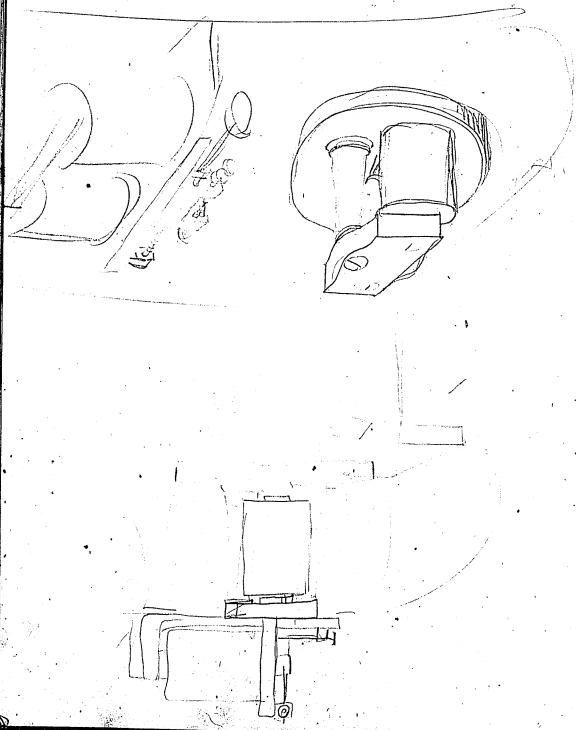

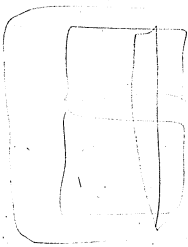

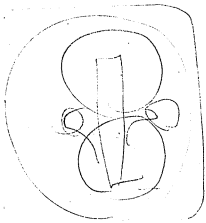

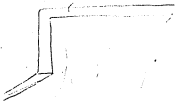

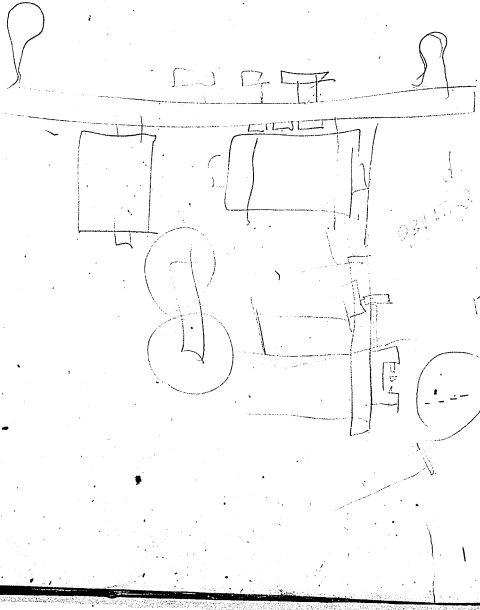

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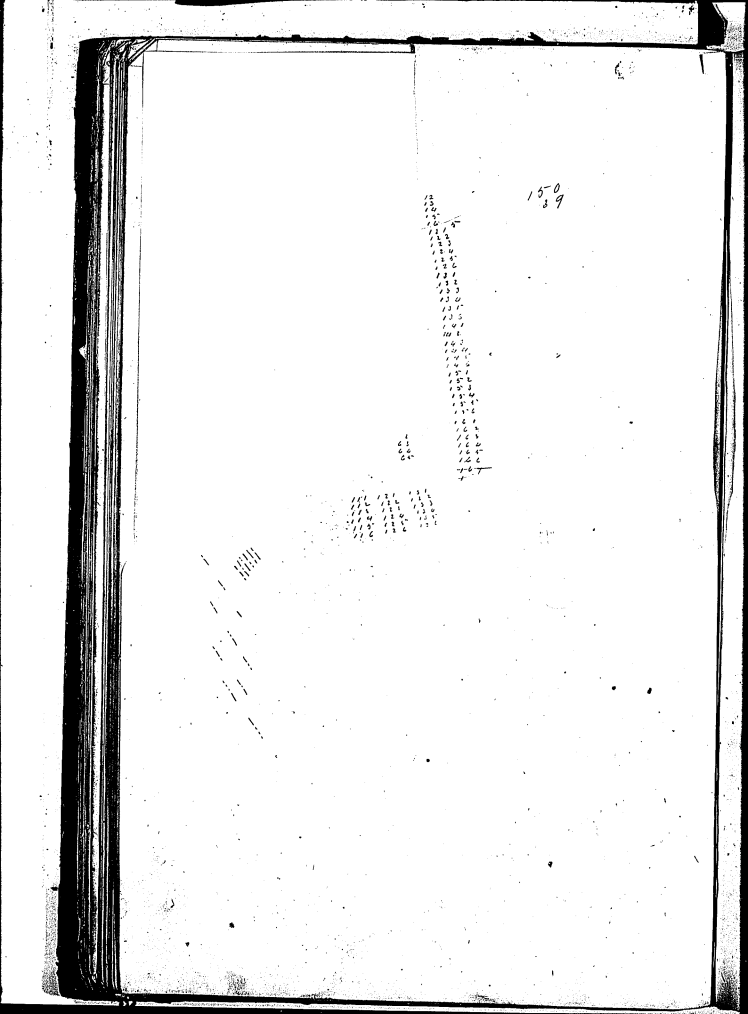
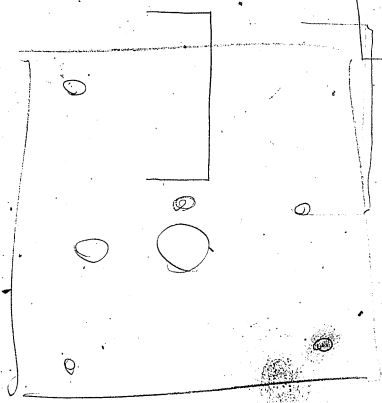
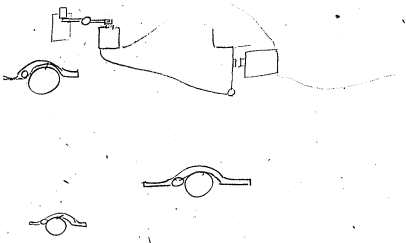


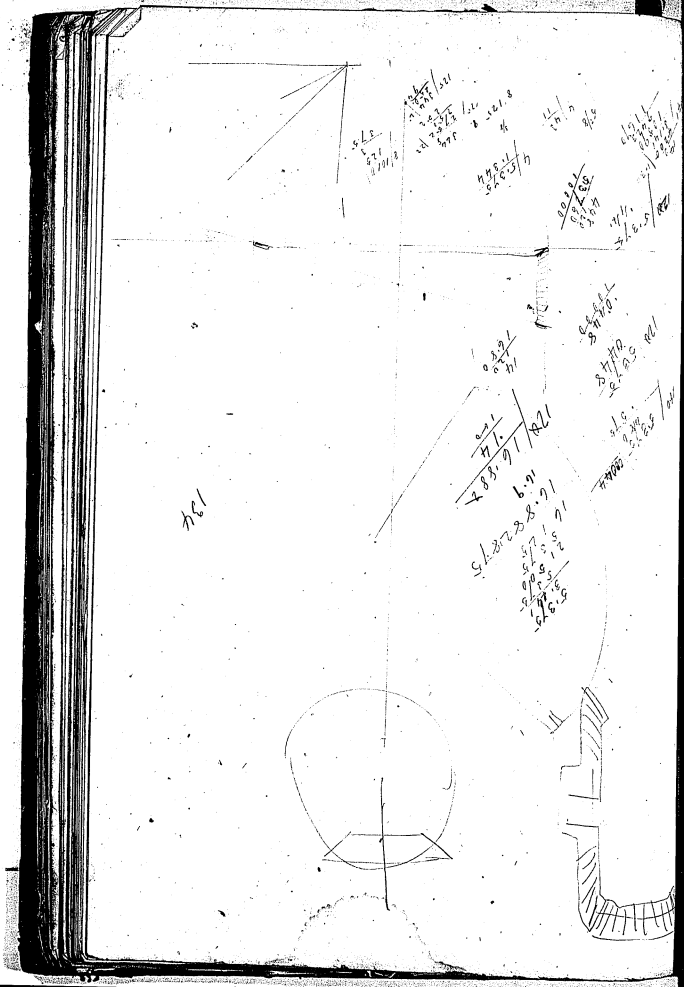
Change the lugs

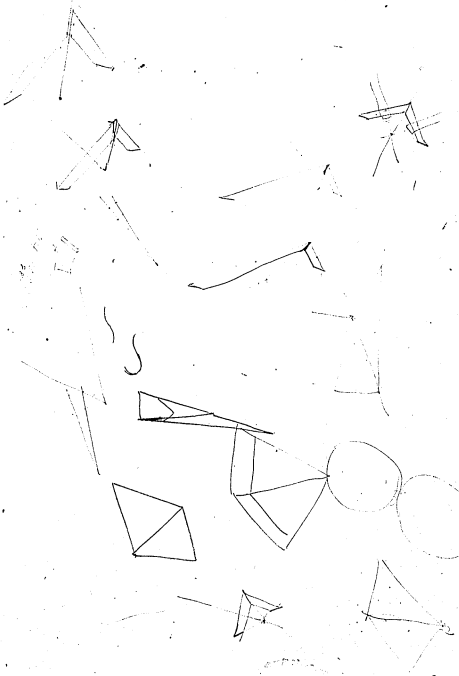


THE DOMESTIC TELEGRAPH CO.
PUSH IN & LET GO
ONCE FOR MESSINGER
TWICE FOR POLICEMAN
THREE TIMES FOR FIRE



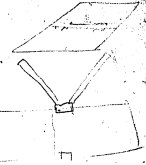
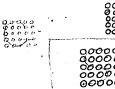
Tonos Tie
NEW YORK
Must For Philly





Roman perforations

1. Reihe 1.
2.
3.
4. — B C D E F G H J K L O P Q R S U
5. — A M N T V W X Y Z 9+

ooo

A Cutaway 2-3-4-5-6-7-9-10-11-12-15-16-17-19-20-21-22-23-24
B " " 7-9-12-11-16-18-20-21-22-23-24-25
C " " 1-5-7-8-9-11-12-14-16-18-20-21-22-23-24-25
D —— 7-8-9-11-12-14-16-20-21-22-23-24-25
E —— 7-9-11-12-17-18-19-21-22-23-24-25
F —— 6-7-9-11-12-15-17-18-19-20-21-22-23-24-25
G —— 1-5-7-8-9-11-12-14-16-18-21-22-23-24-25
H —— 6-7-9-10-11-12-13-15-21-22-23-24-25
I —— 6-7-8-9-10-11-13-14-15-16-17-18-19-20-21-22-23-24-25
J —— 1-3-4-5-7-9-10-11-12-13-14-21-22-23-24-25
K — 6-7-9-10-13-14-15-17-18-19-21-22-23-24-25
L — 7-8-9-10-11-12-13-14-16-17-18-19-21-22-23-24-25
M — 6-7-8-10-11-12-13-15-16-18-19-20
N — 6-7-8-10-11-12-13-15-16-17-18-20
O — 1-5-7-8-9-11-12-14-16-20-21-22-23-24-25
P — 6-7-9-11-12-15-16-18-19-20-21-22-23-24-25
Q — 1-5-7-8-9-12-14-16-21-22-23-24-25
R — 6-7-9-11-12-15-16-18-21-22-23-24-25
S — 2-3-5-7-9-11-12-17-18-20-21-22-23-24-25
T — 1-2-3-4-6-7-8-9-17-18-19-20-22-23-24-25
U — 1-2-7-8-9-10-11-12-13-14-20-21-22-23-24-25
V — 1-2-3-4-6-7-9-10-11-12-13-14-16-17-19-20-22-23-24-25
W — 6-8-9-10-11-12-13-15-16-17-18-20
X — 2-3-4-6-8-10-11-12-13-15-16-18-20-22-23-24
Y — 1-2-3-4-6-7-8-10-11-13-16-18-19-20-22-23-24-25
Z — 2-3-4-7-8-9-11-12-18-19-22-23-24
9+ 12-4-5-6-7-9-10-11-12-13-15-16-17-19-20-21-22-24-25

A curve
B " "
C " "
D
E
F
G
H
I
J
K
L
M
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T
U
V
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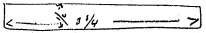
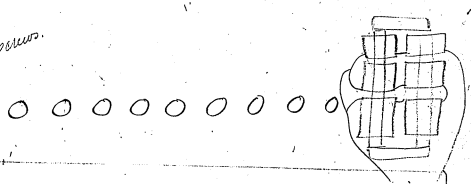
X
Y
Z
Q

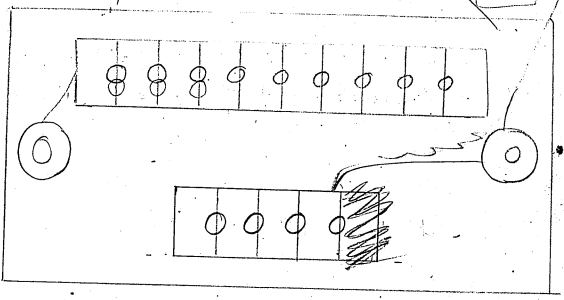
2 Leading shunt

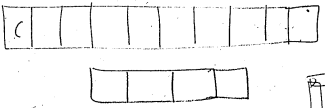
B.S. 20%

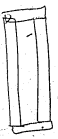


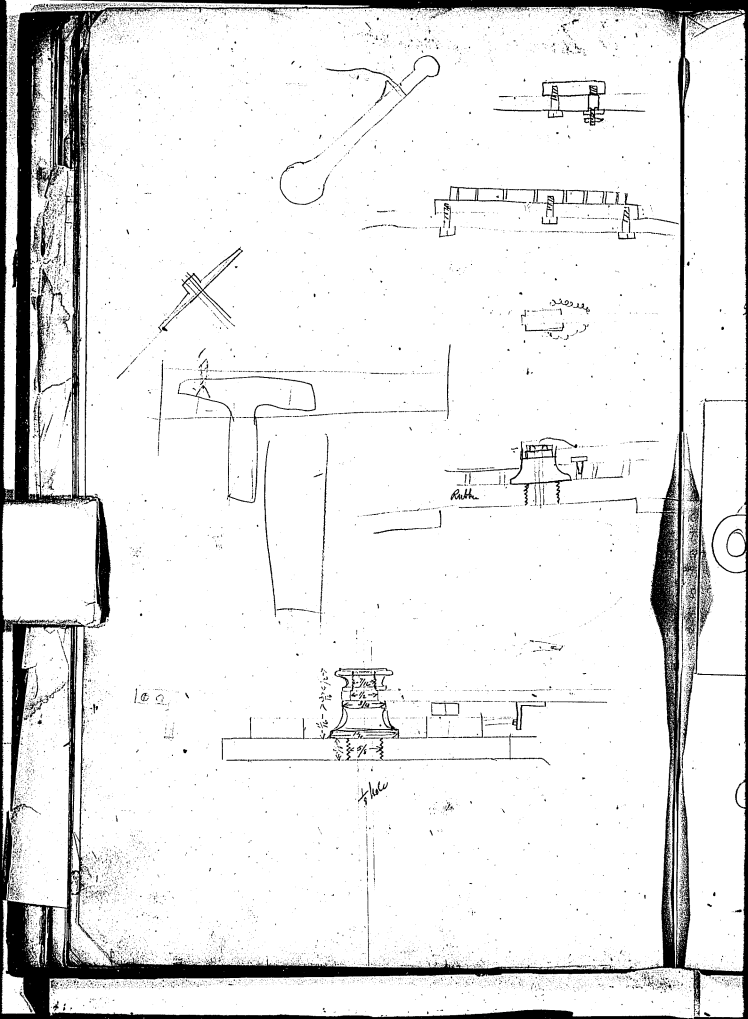
210 pieces.

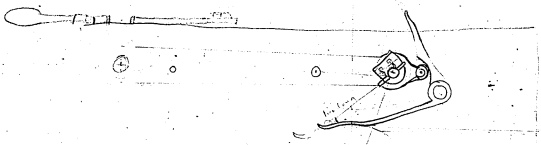




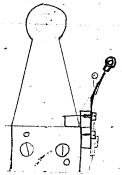


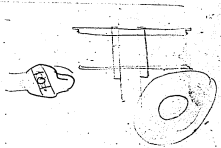


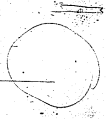


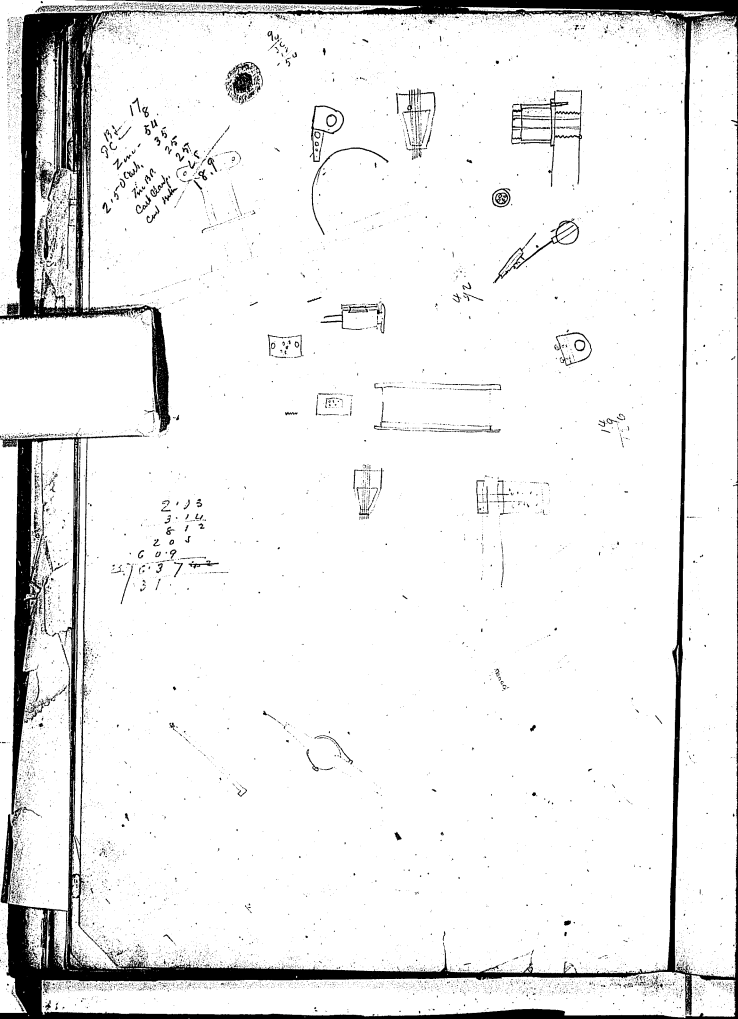


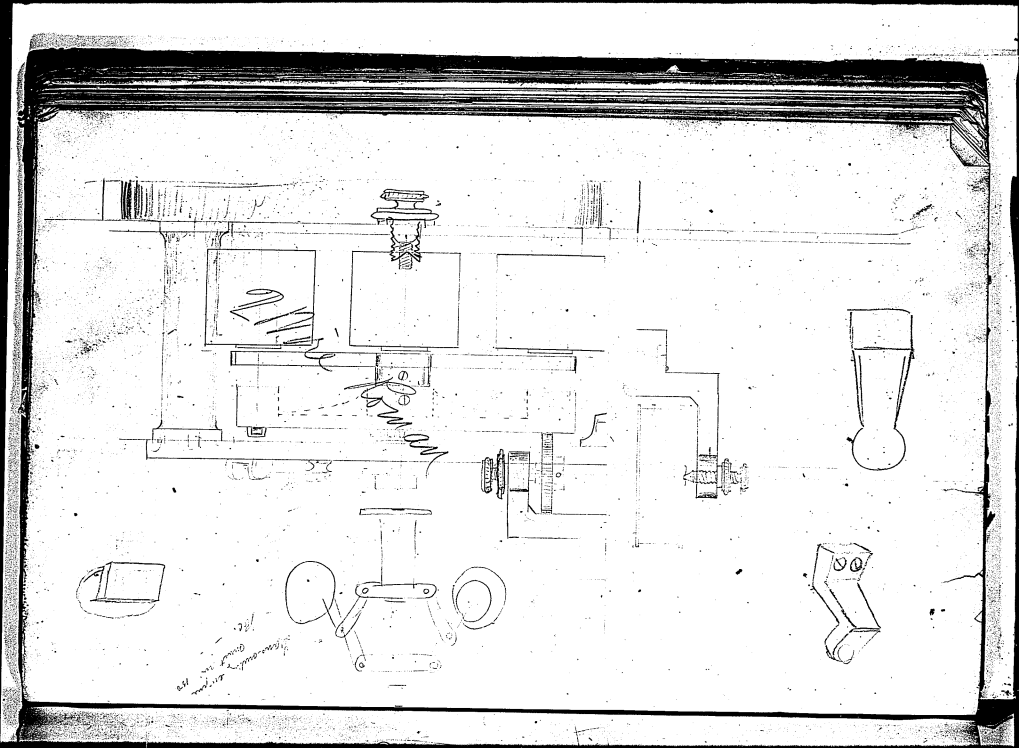
Trans drum 2 1/2
Recev drum 2"

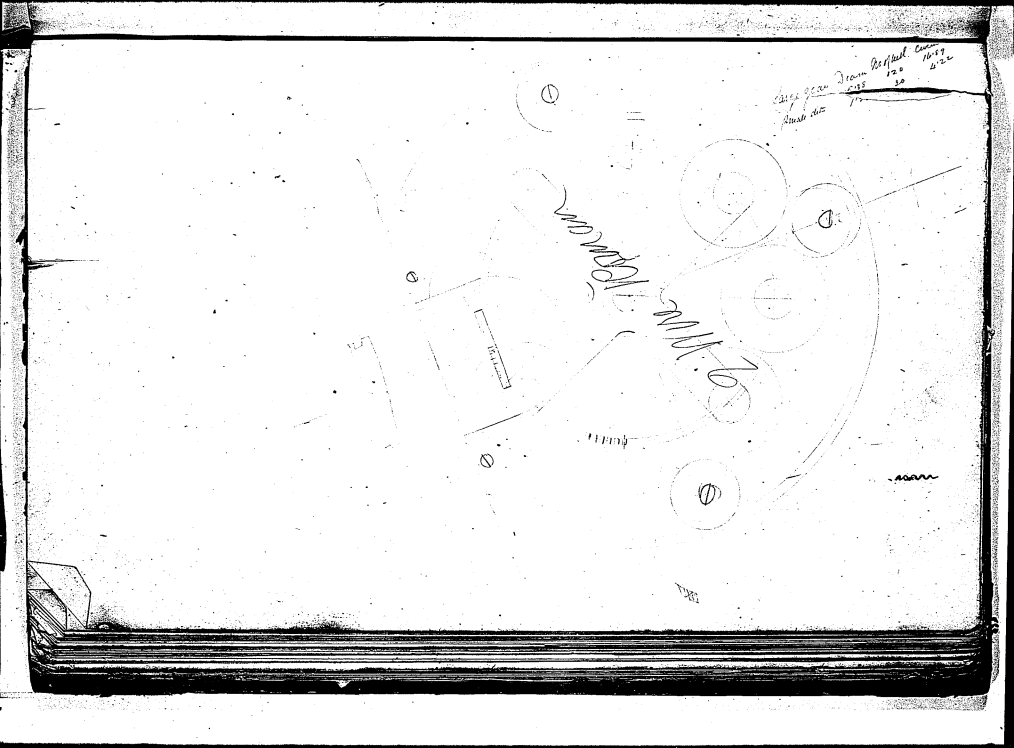


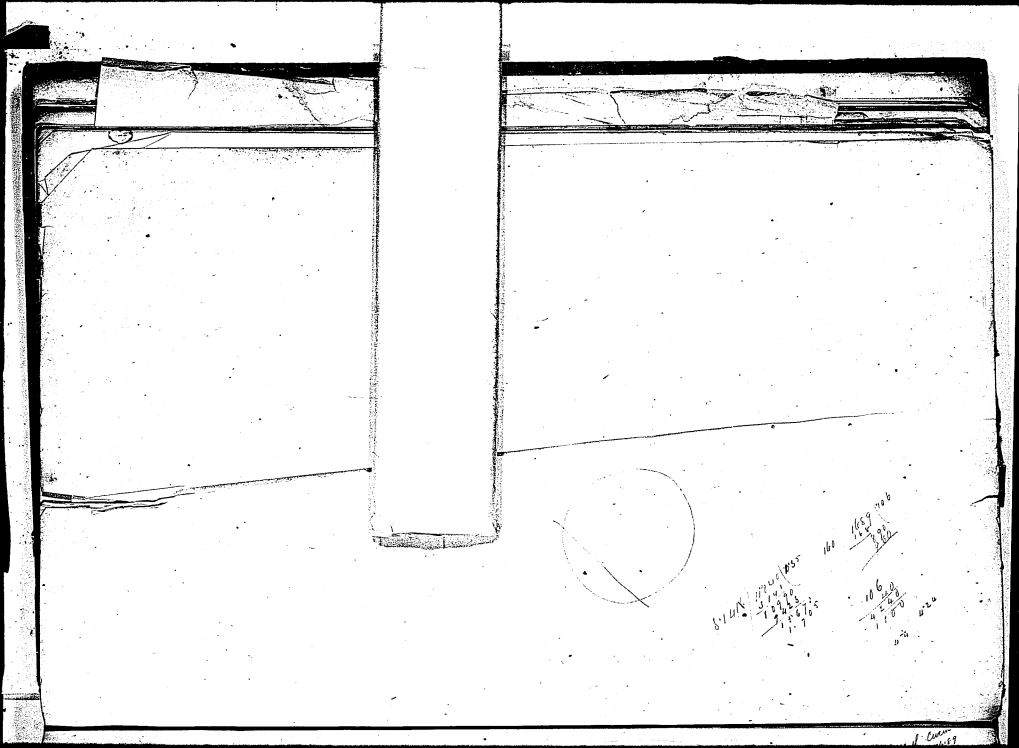


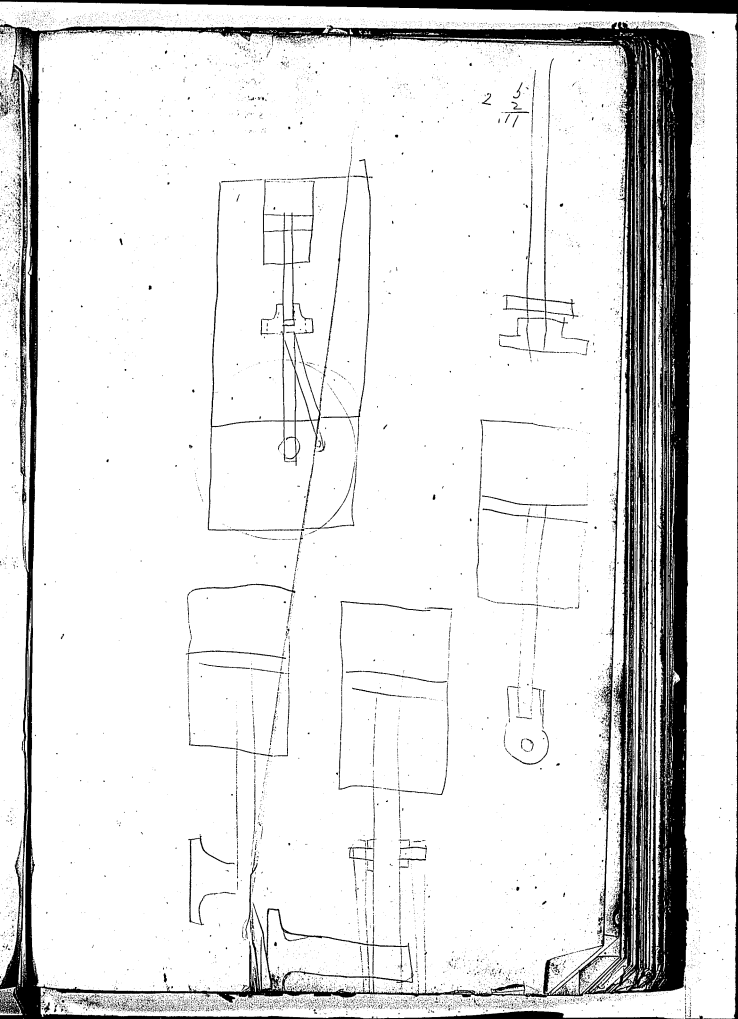


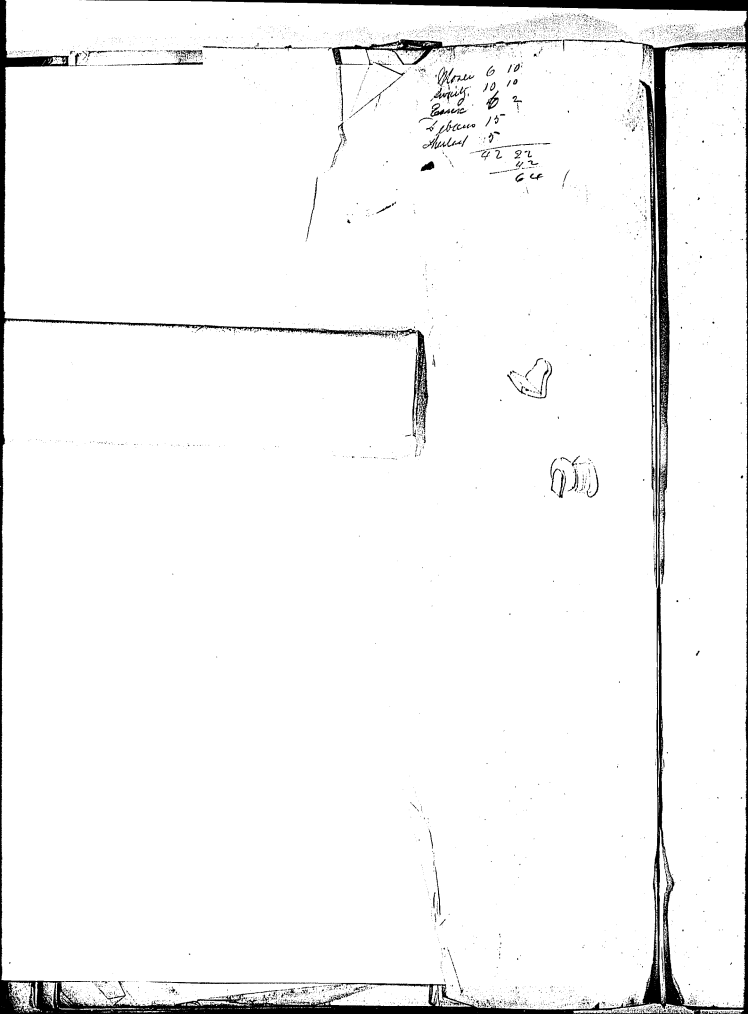


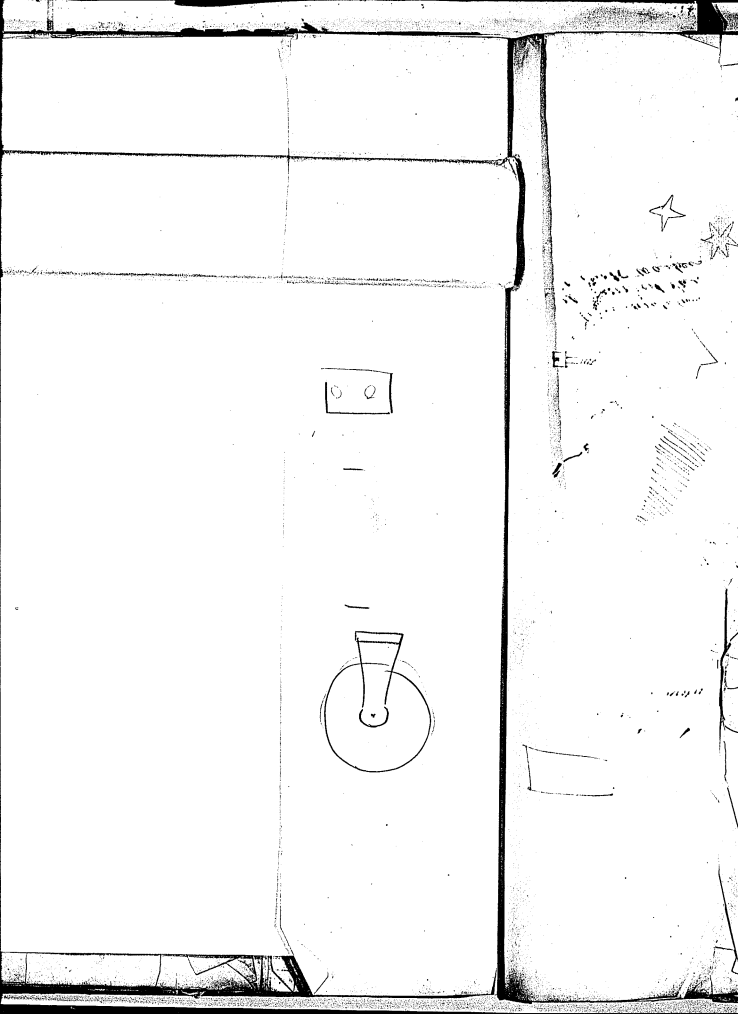


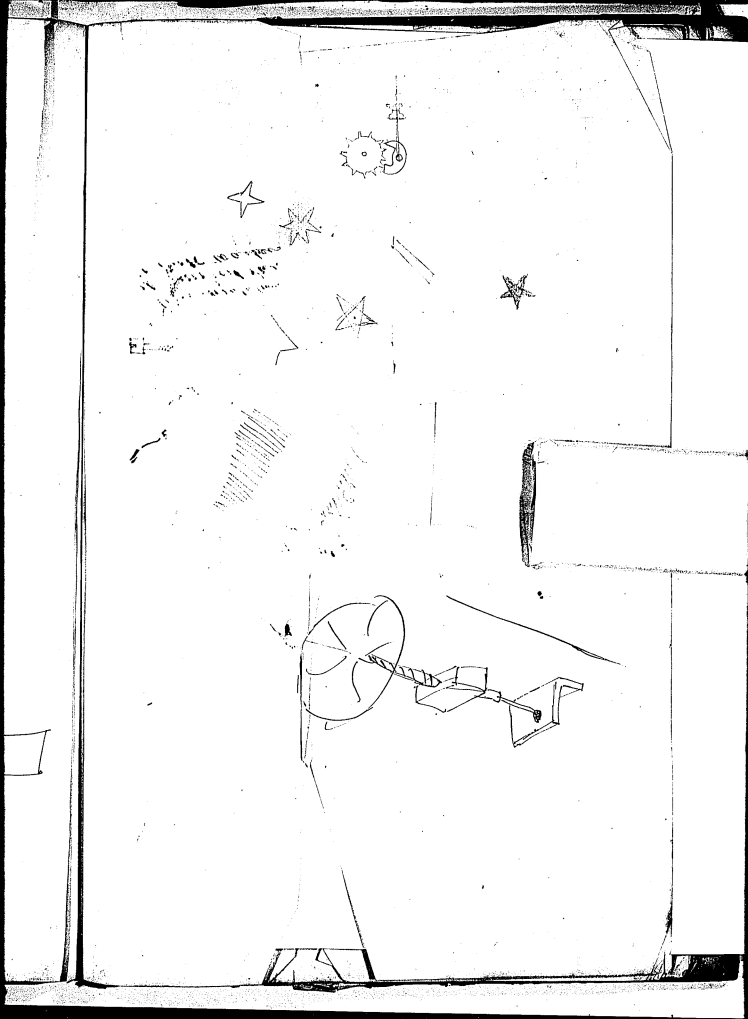


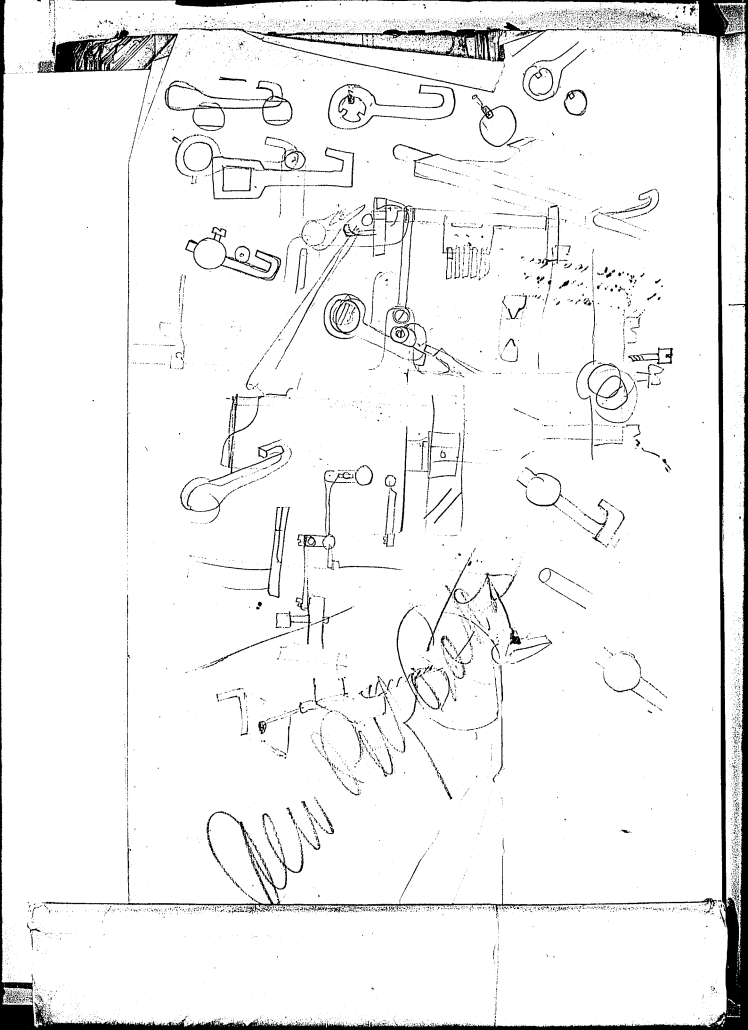


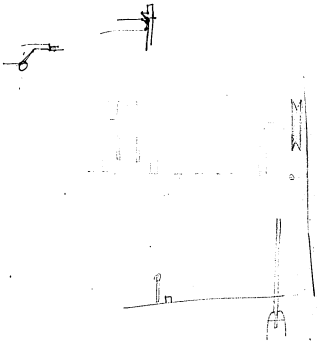








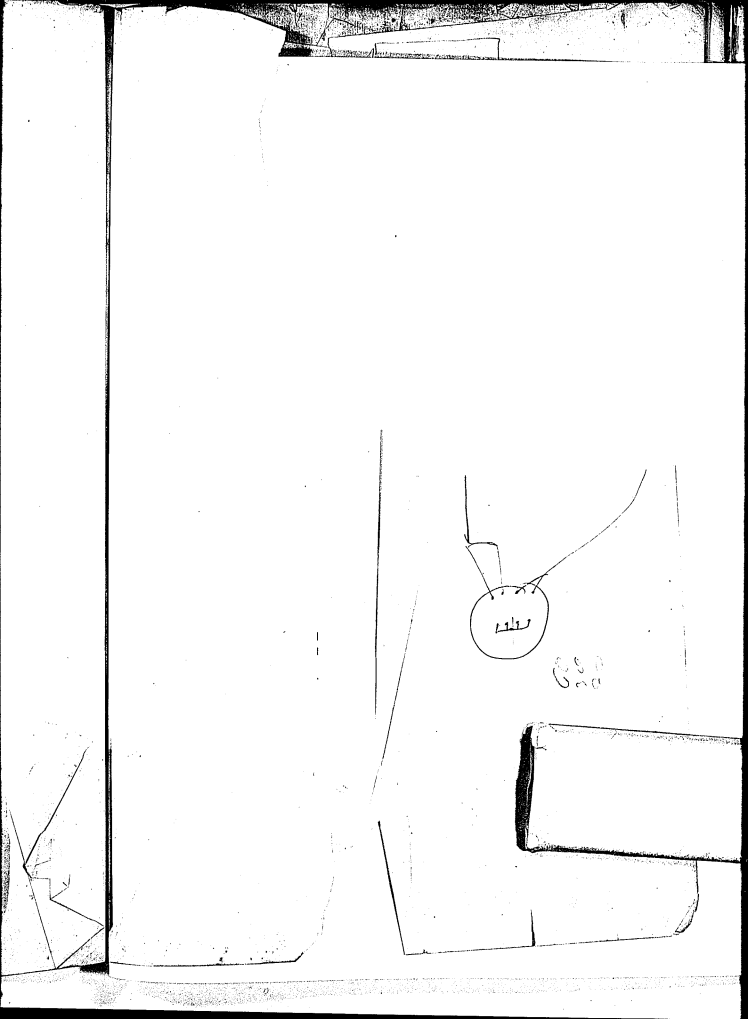


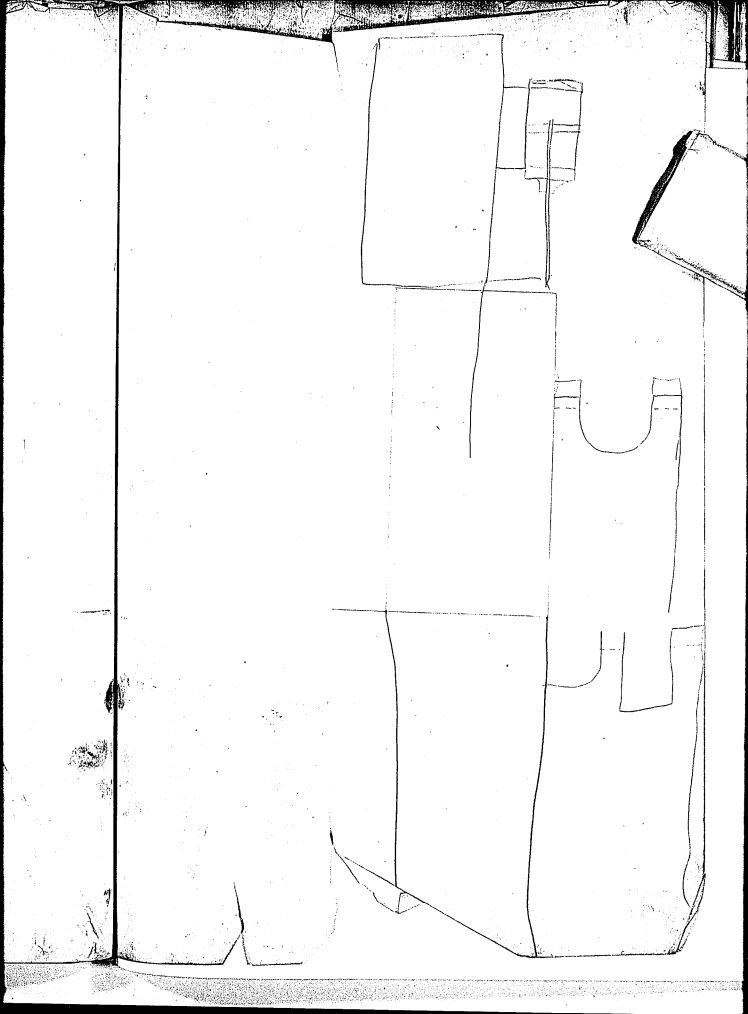


Ogden - John Ott

Jan - 19 - 1875

7 Sounders.
2 Switches K_2 each
41 Cop Clocks 12 print
27 Wet paper reels
10 Relays.
48. Bichfasts Large





2
24
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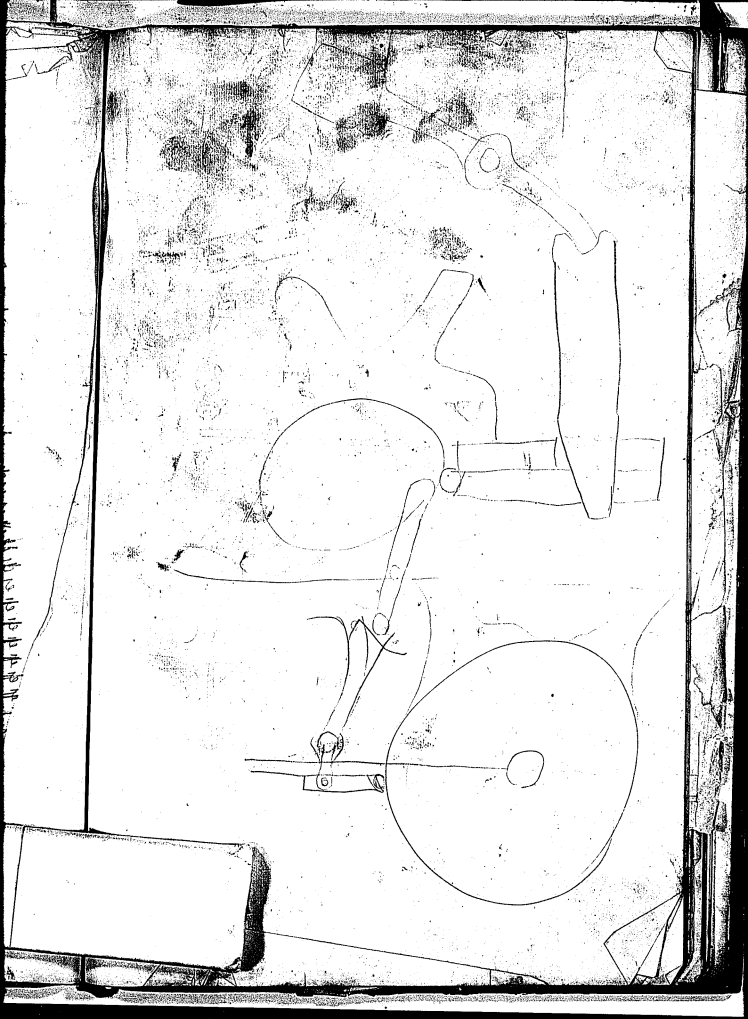
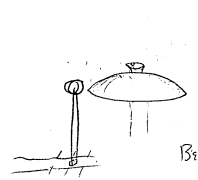
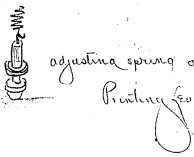
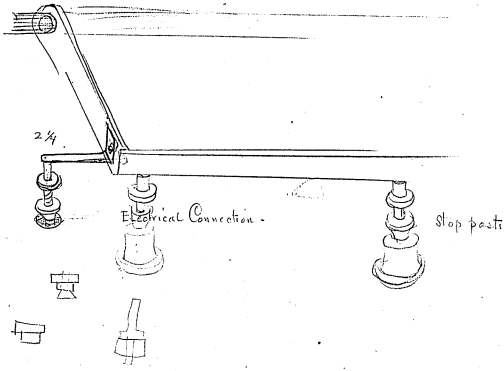
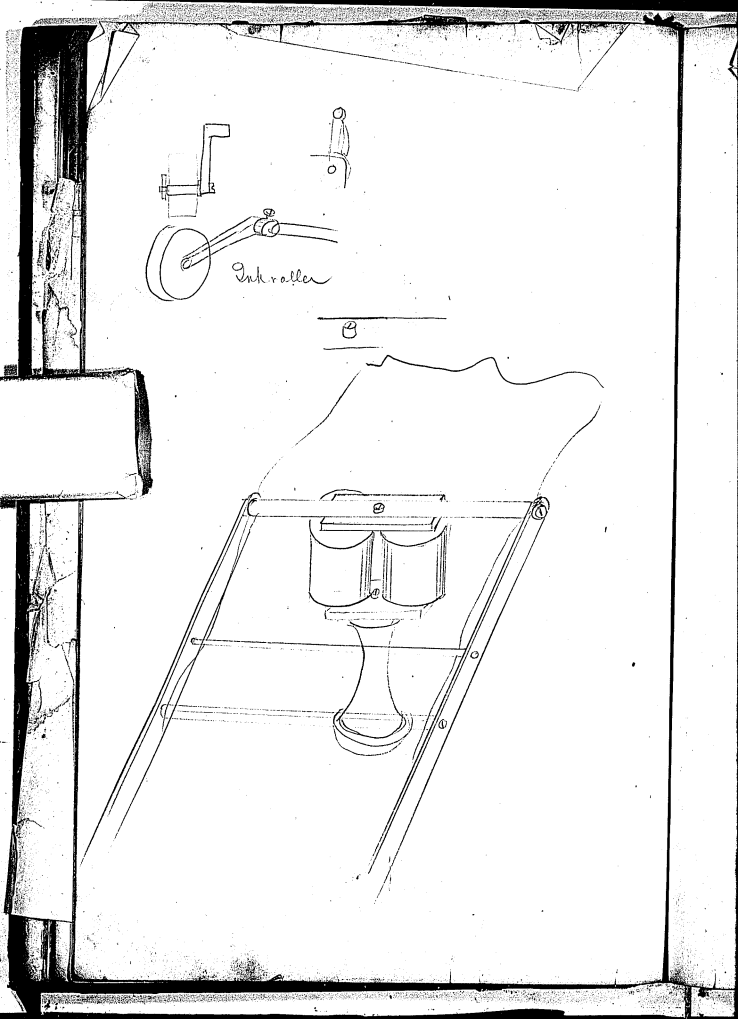


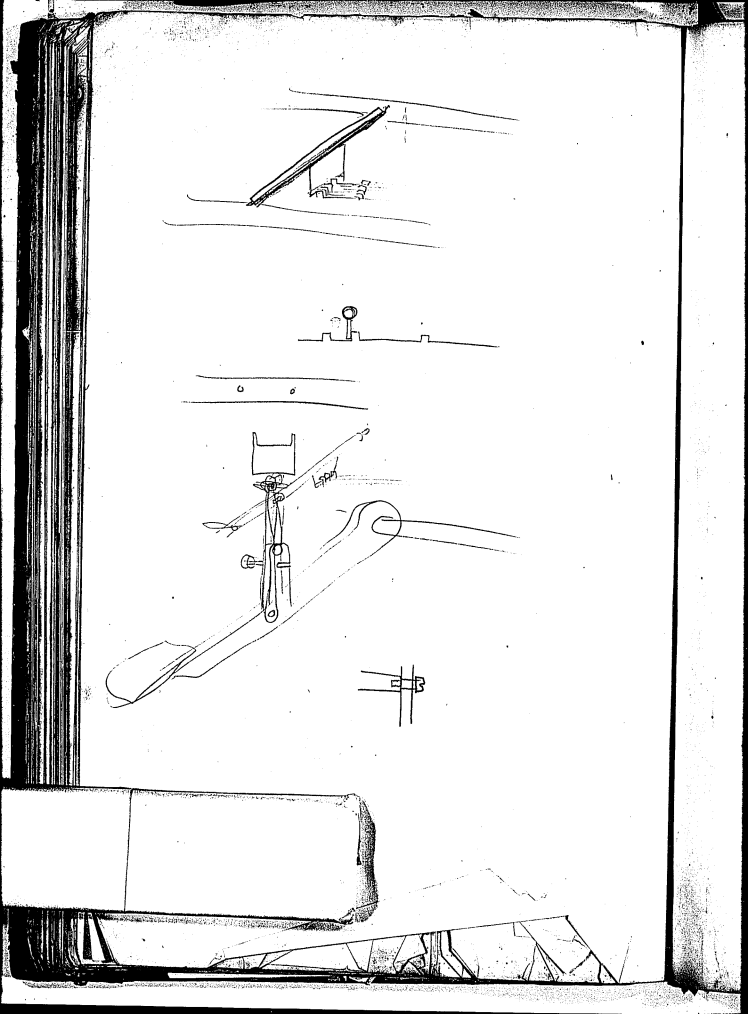


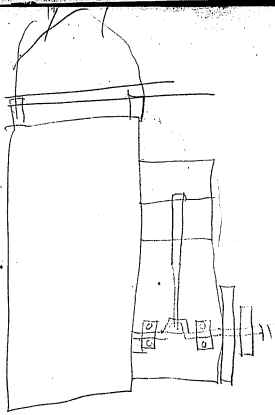
Bell.

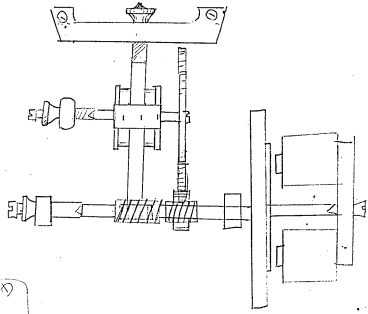

adjusting spring on
Printing feed

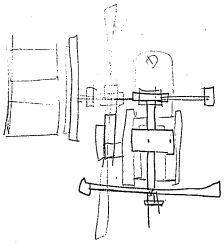

2¼
Electrical Connection -
Stop posts

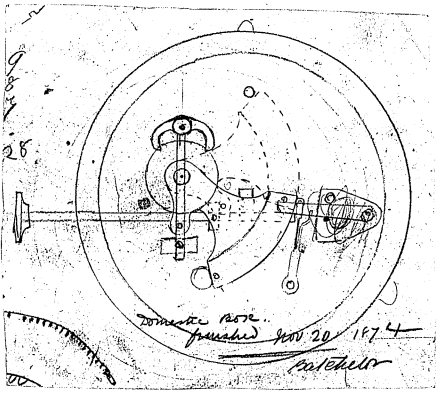

Ink roller
B











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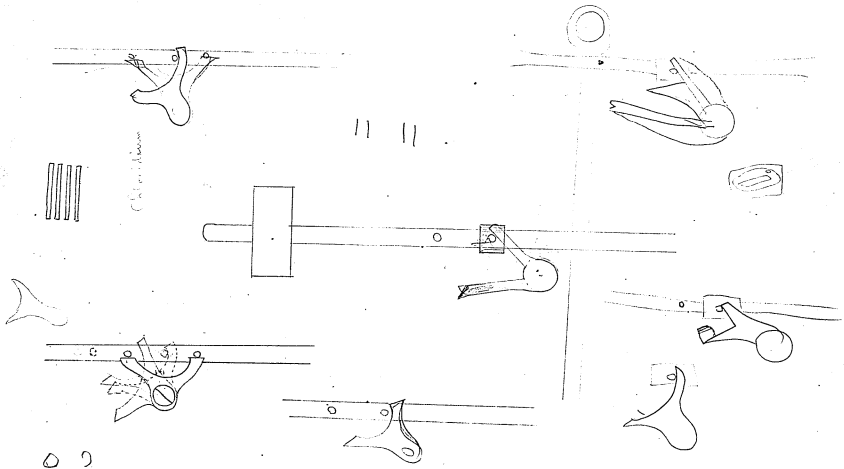
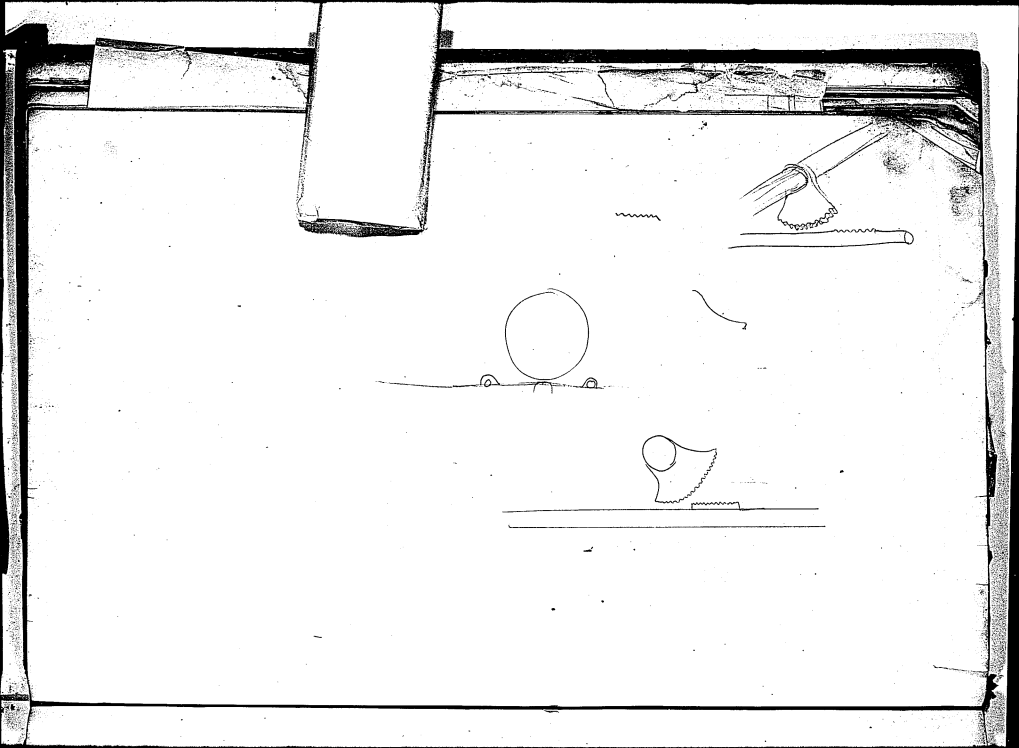
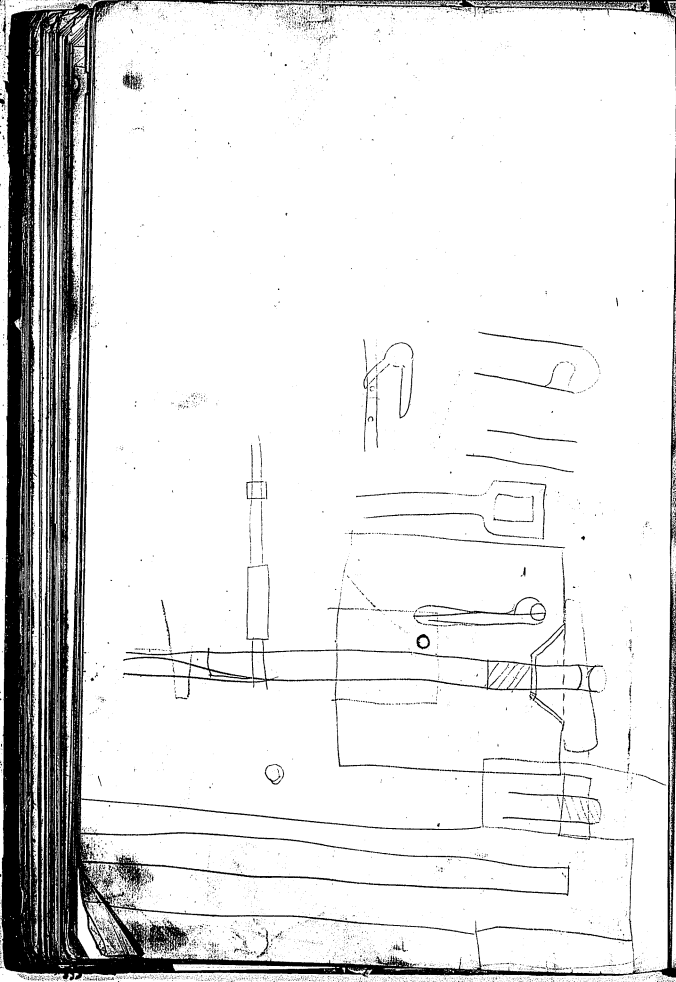
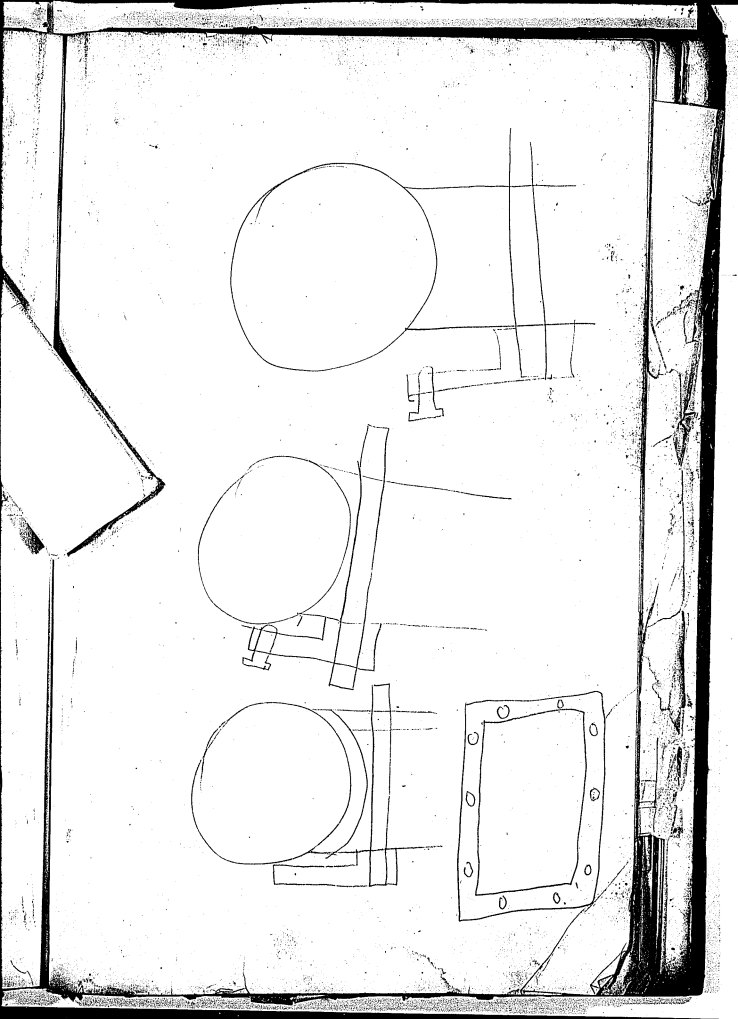
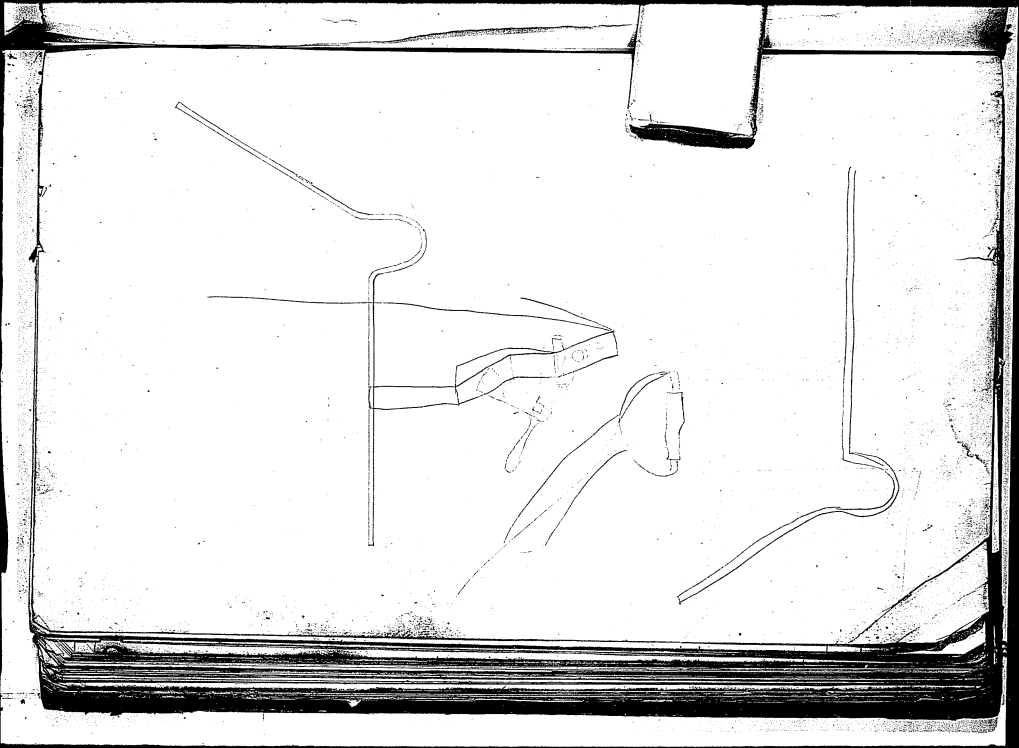
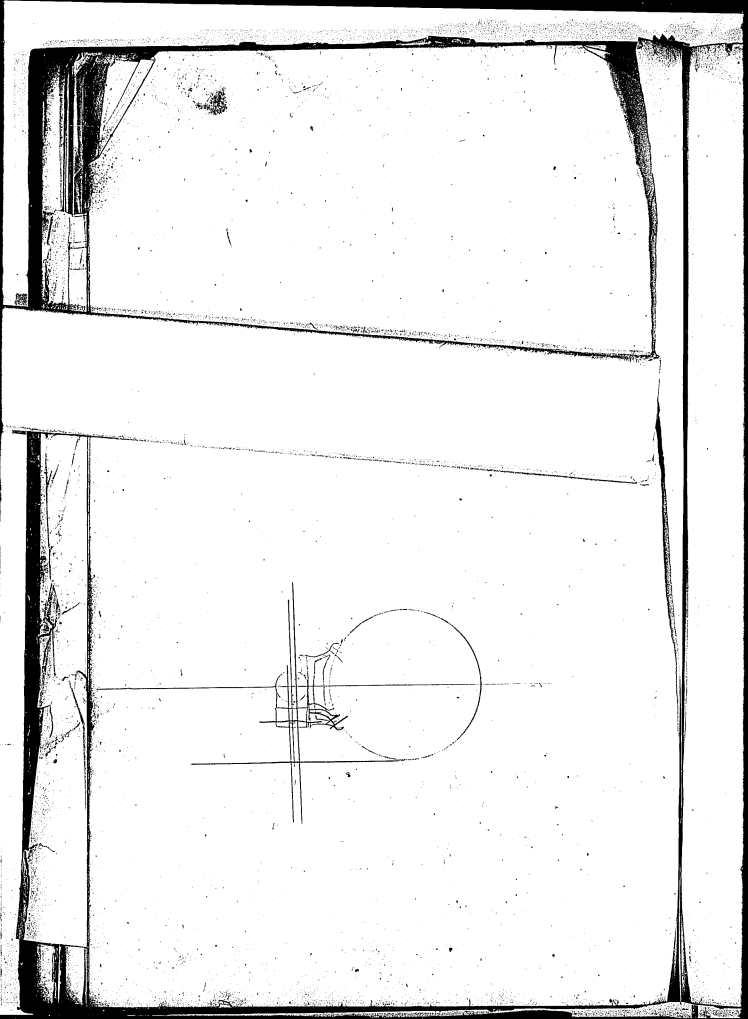


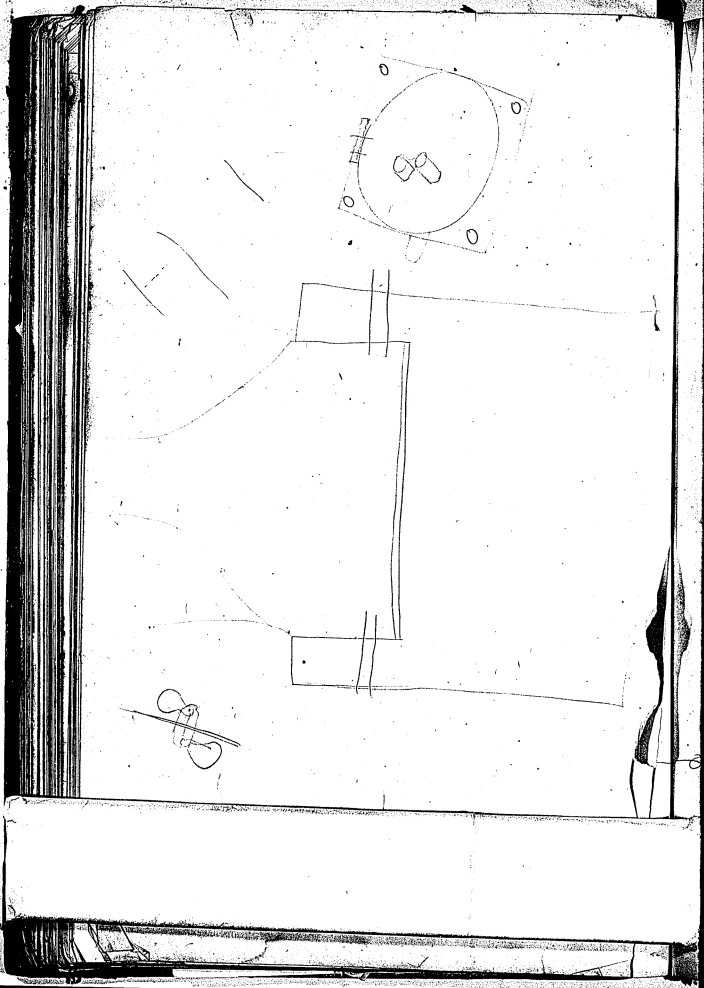


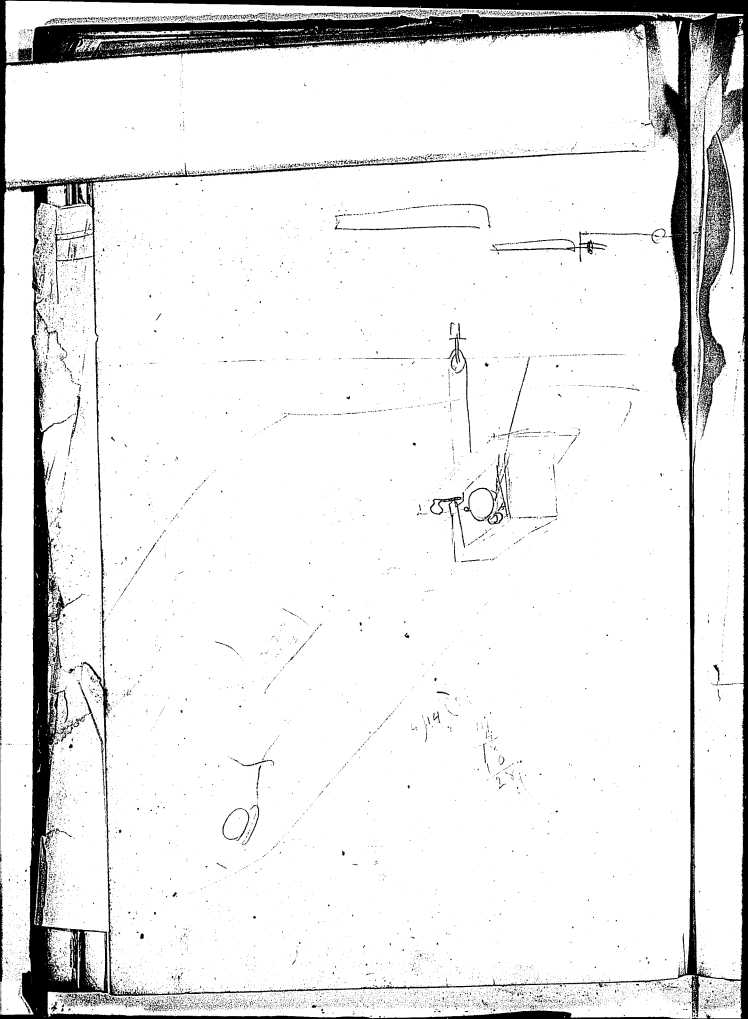


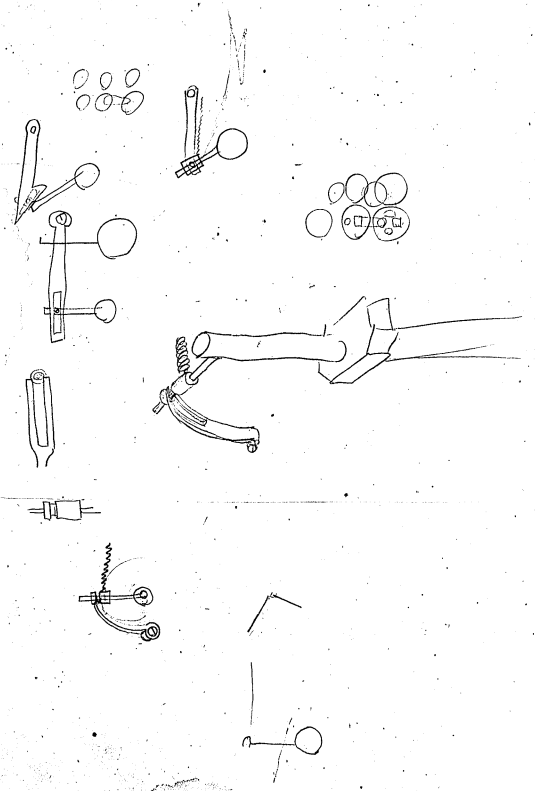


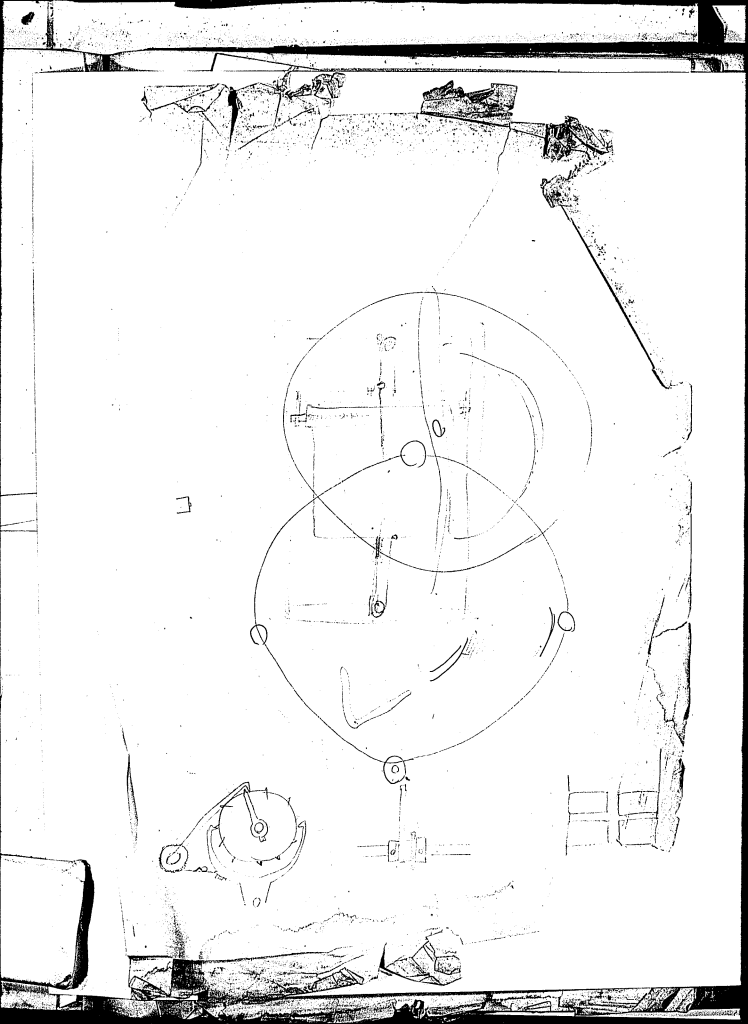


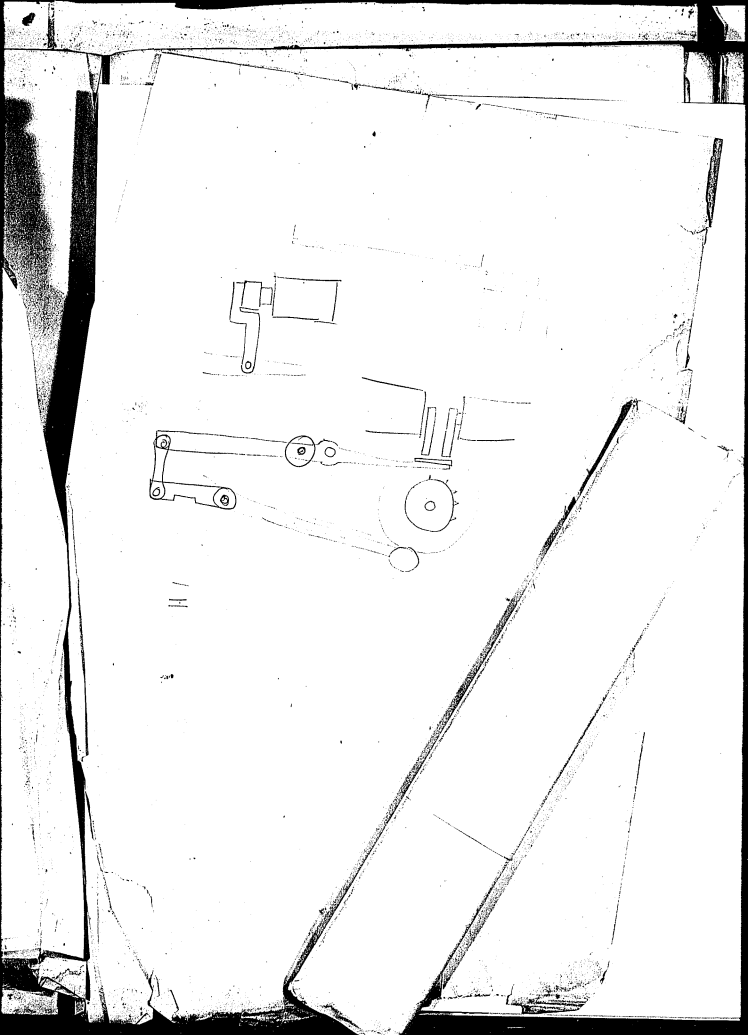


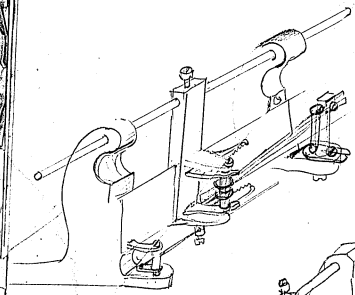


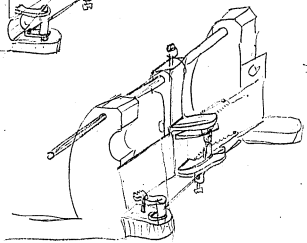
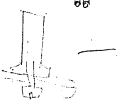


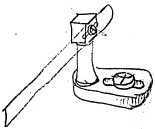


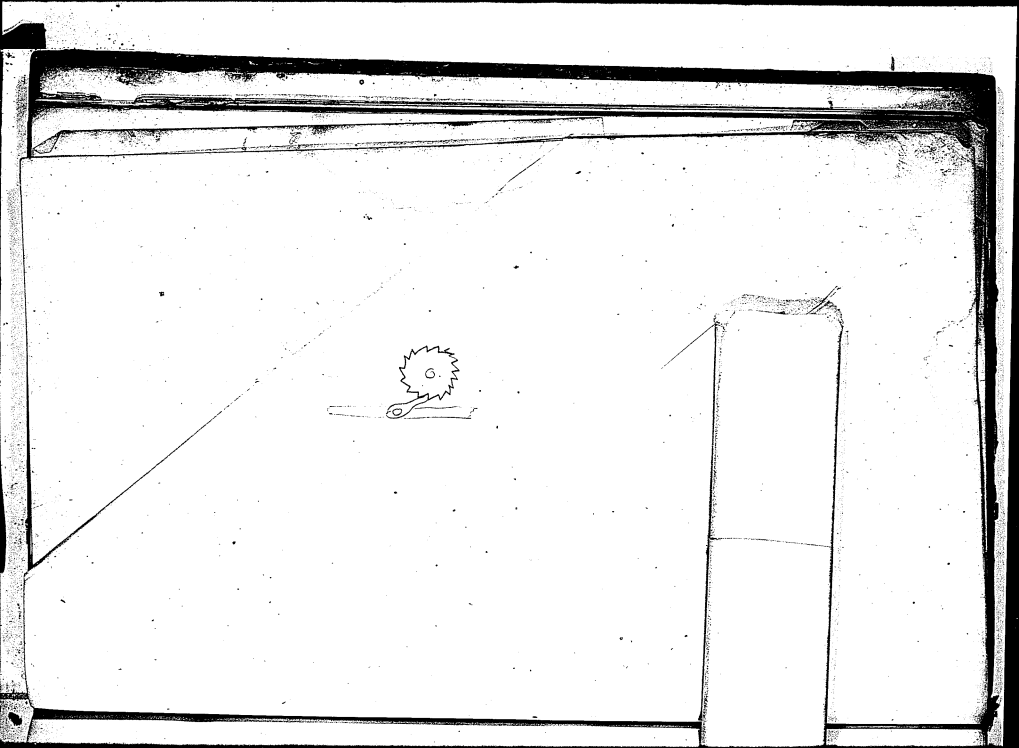


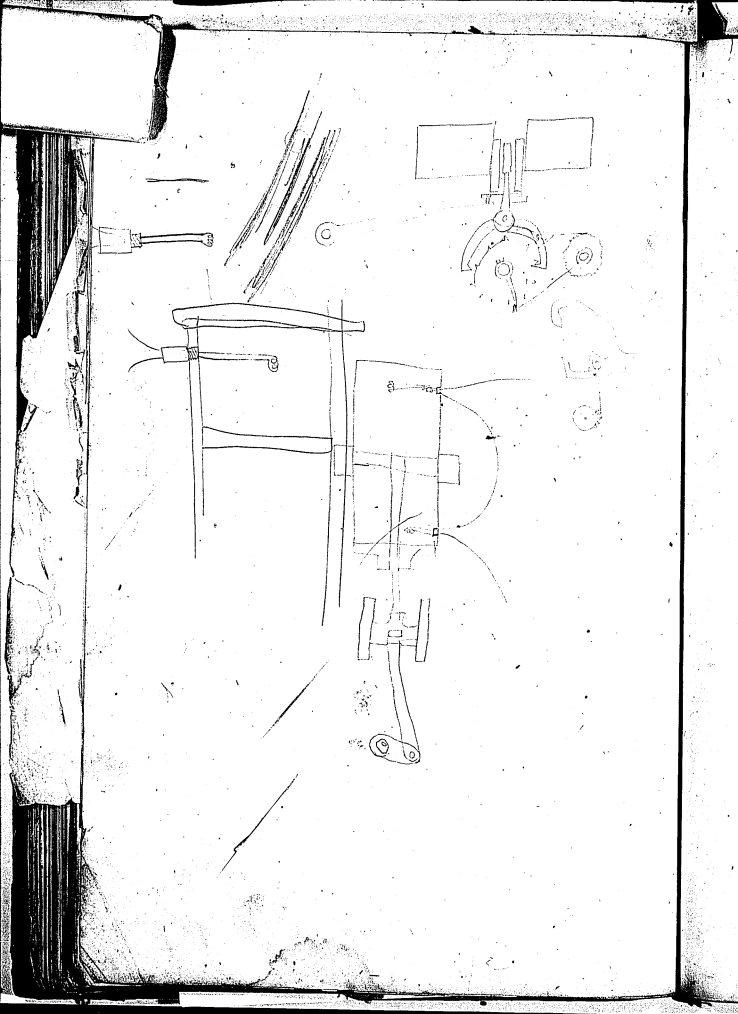


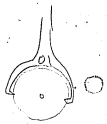


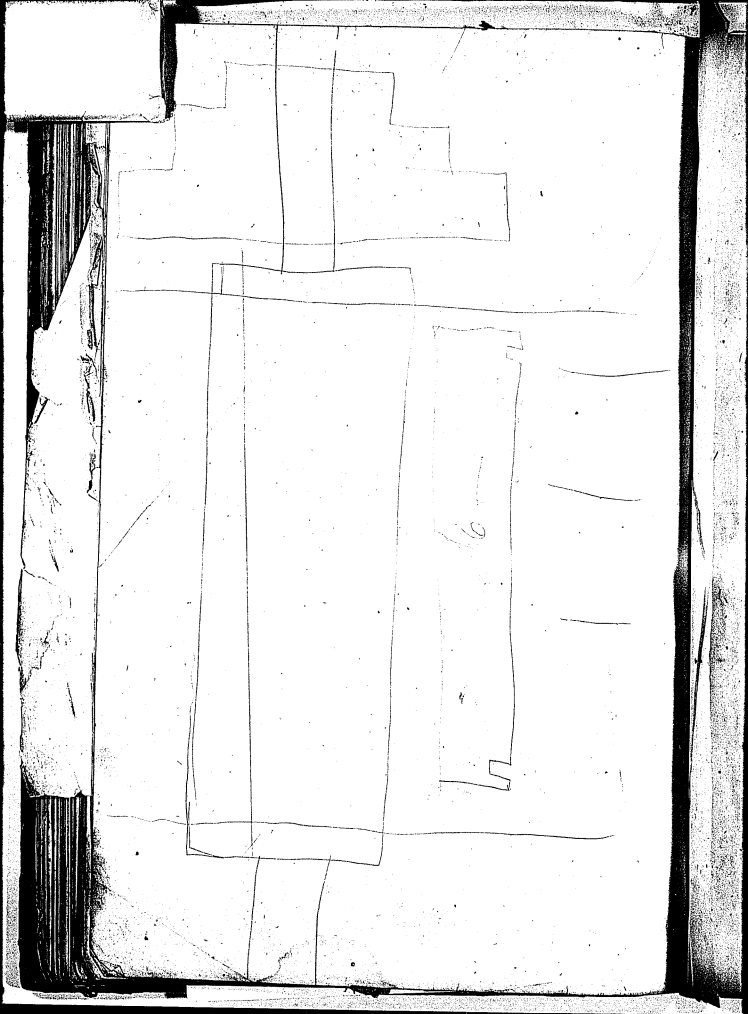



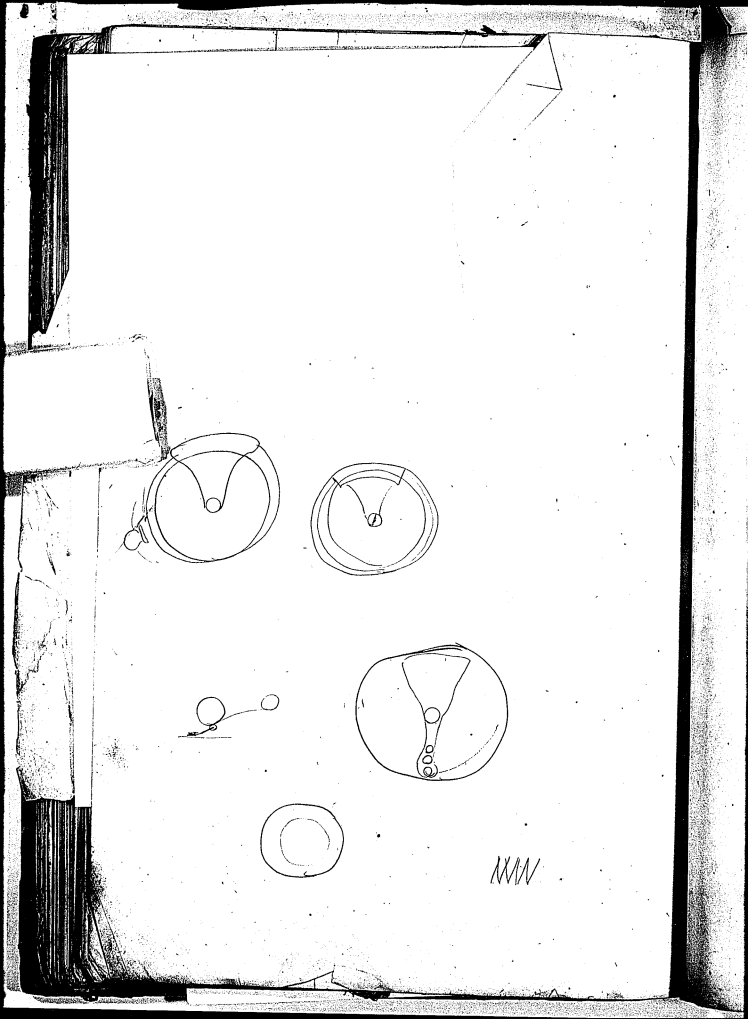


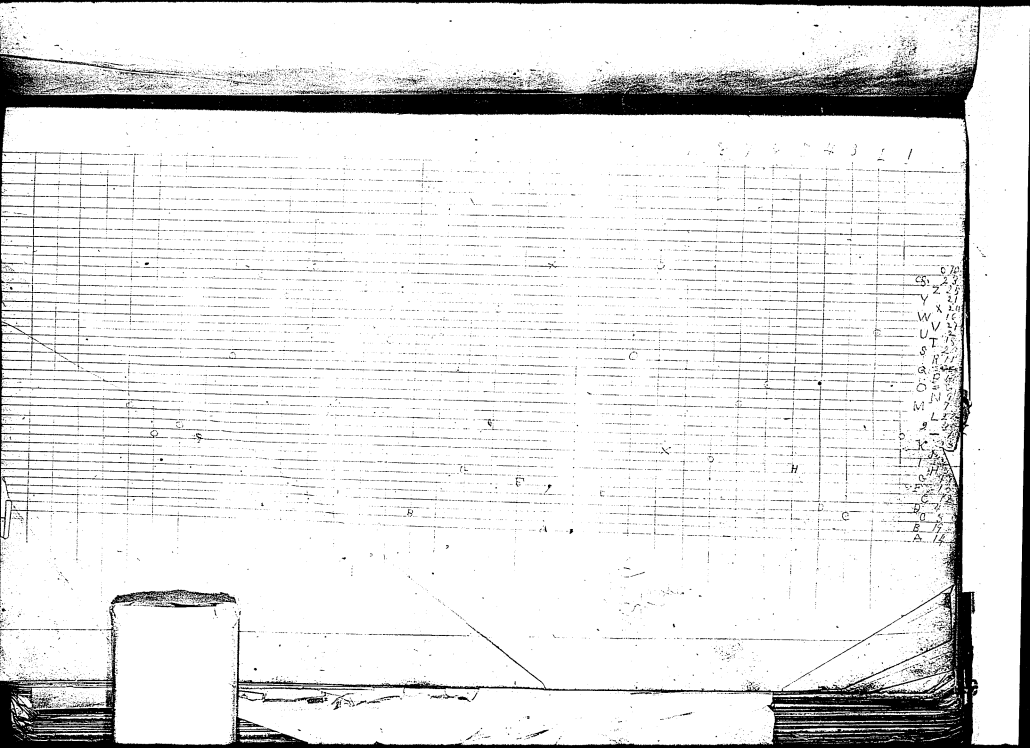


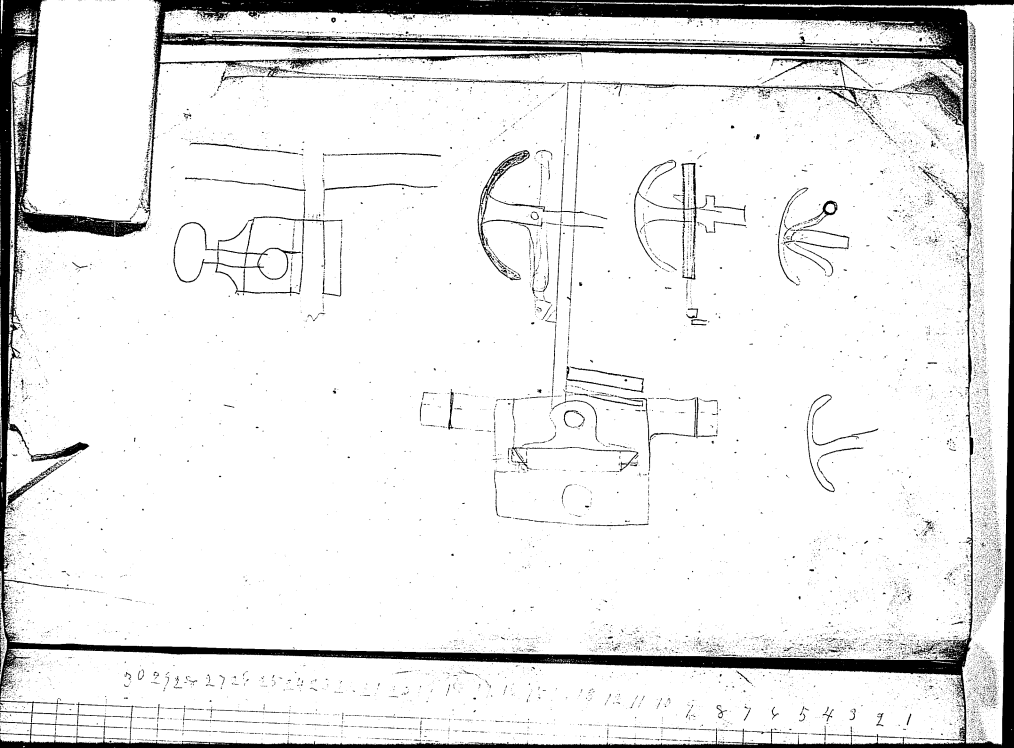


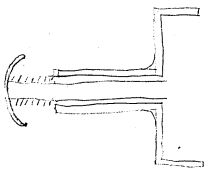






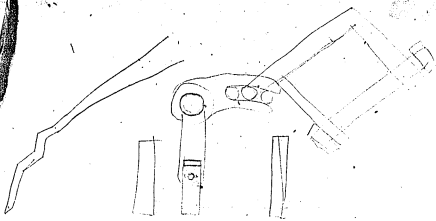


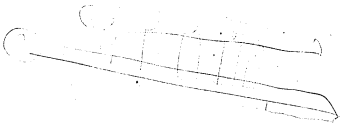


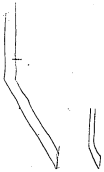


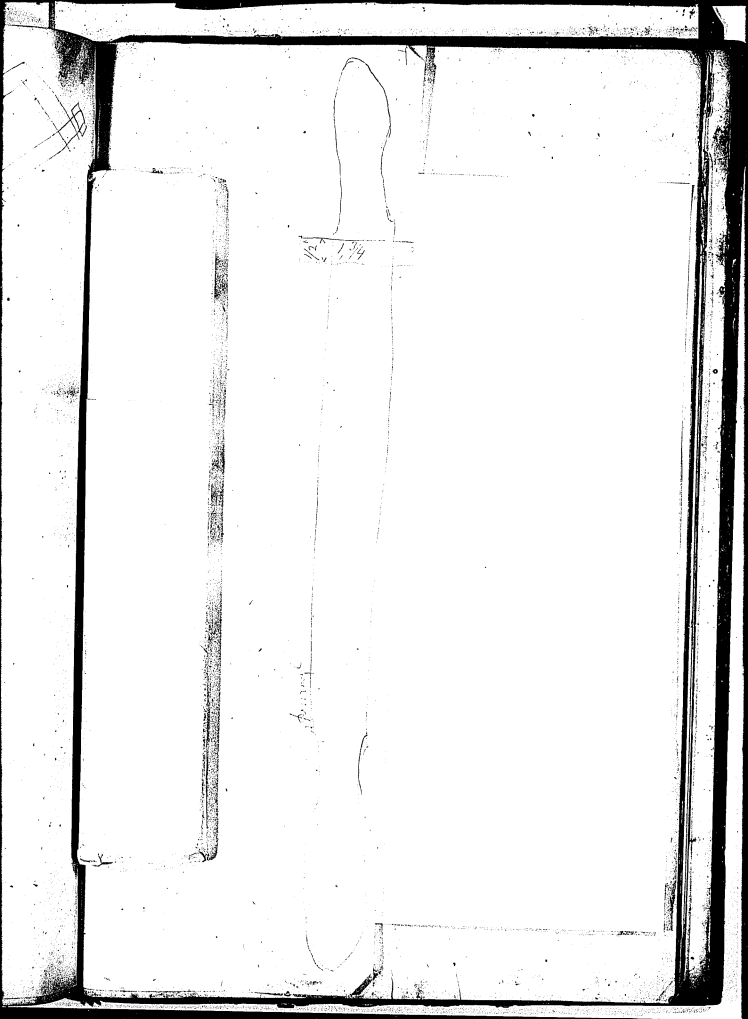
Relays

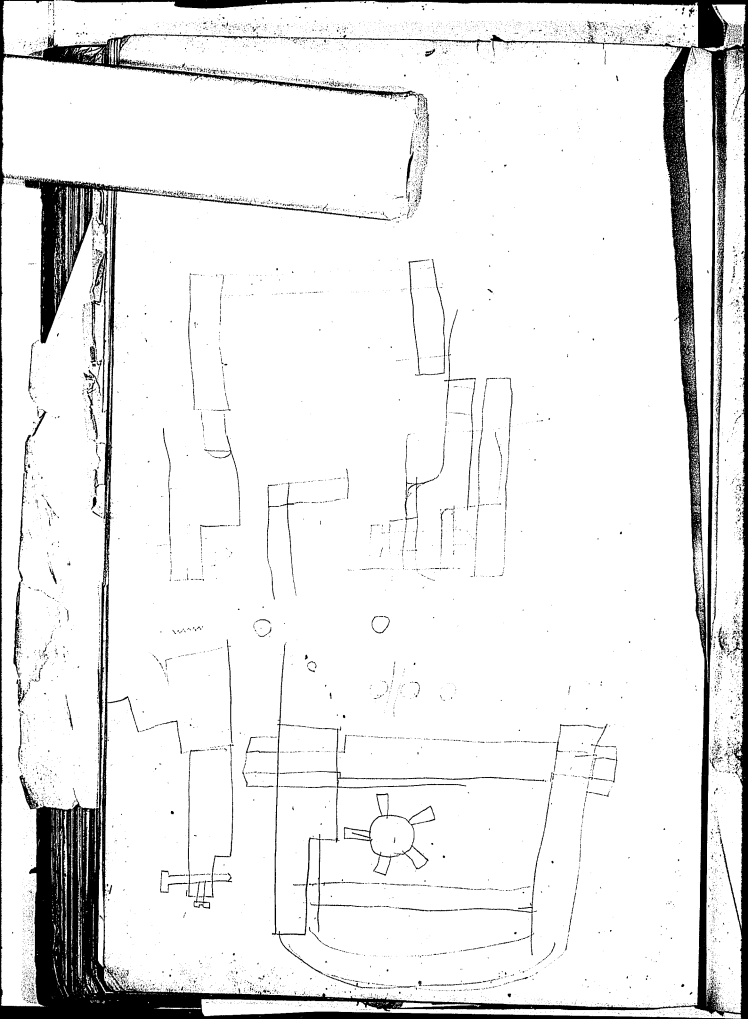
Run Back to first point
Adjustment complete

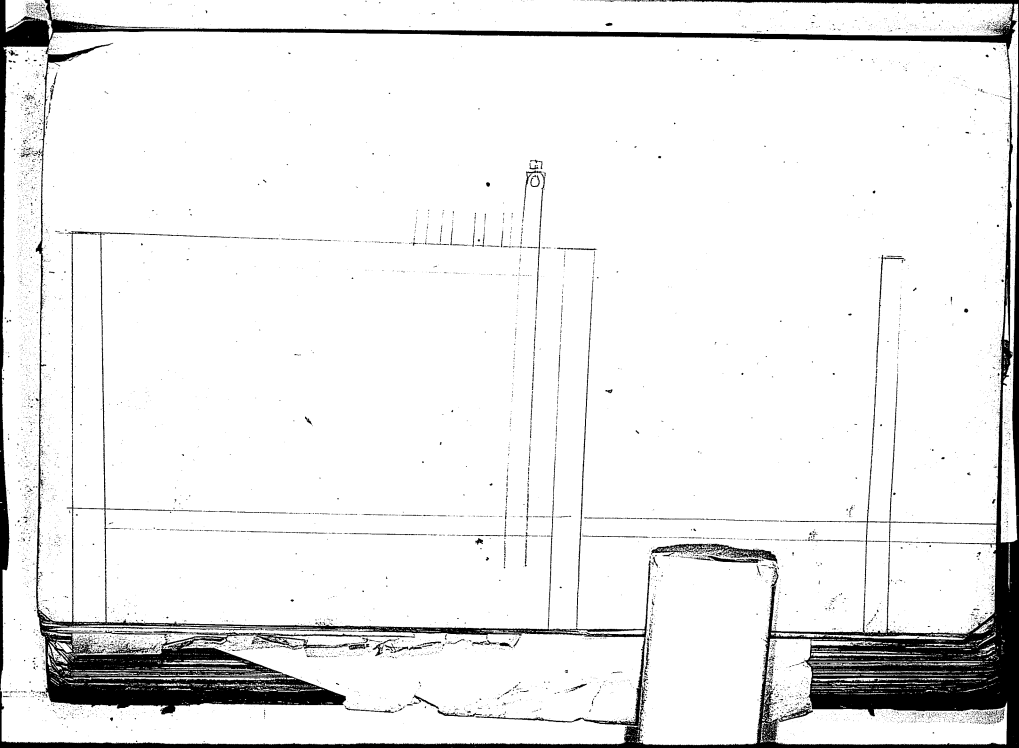


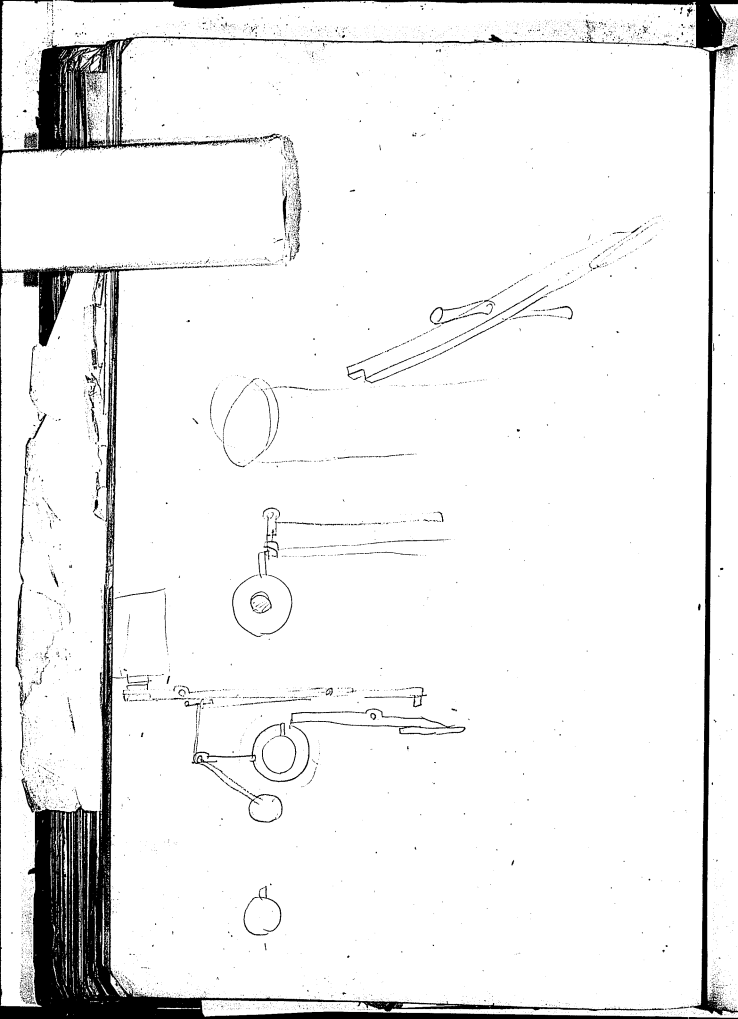


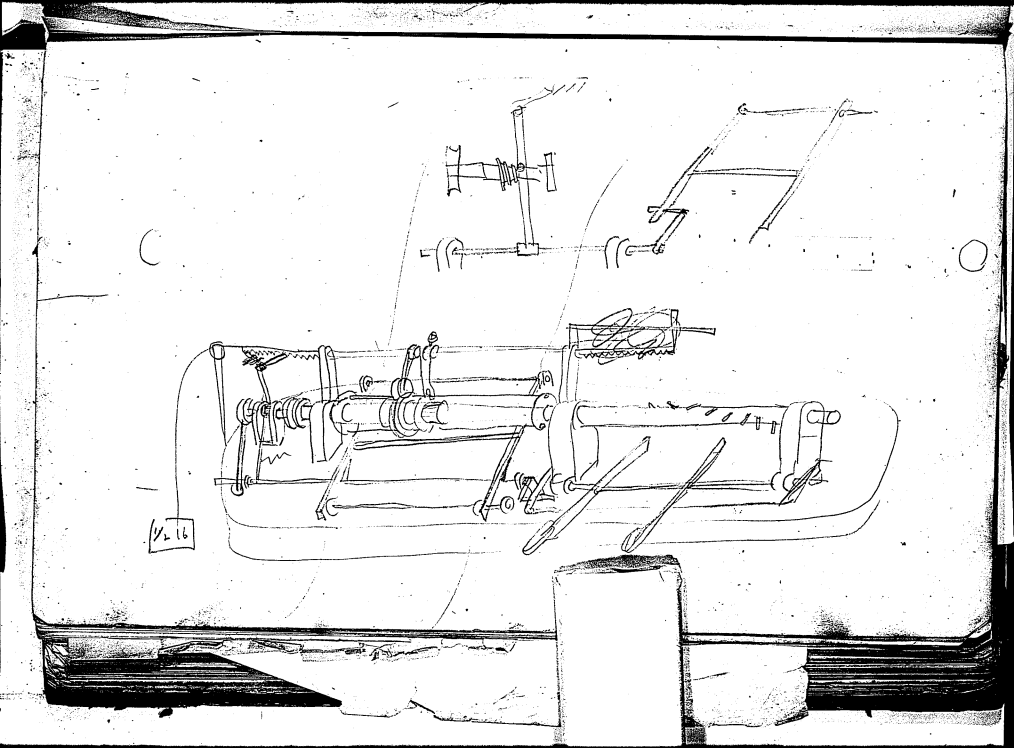


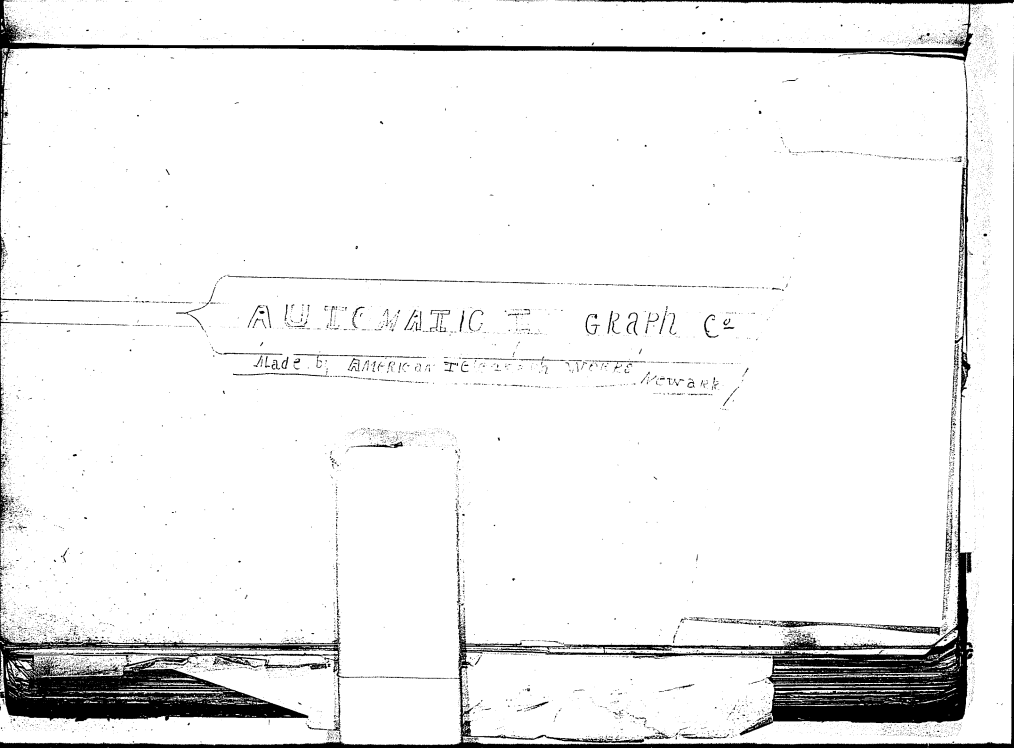




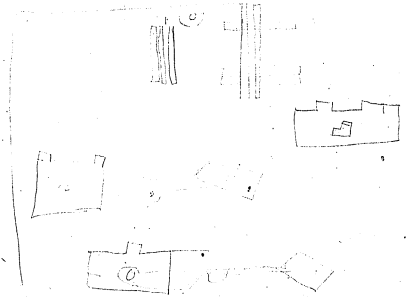


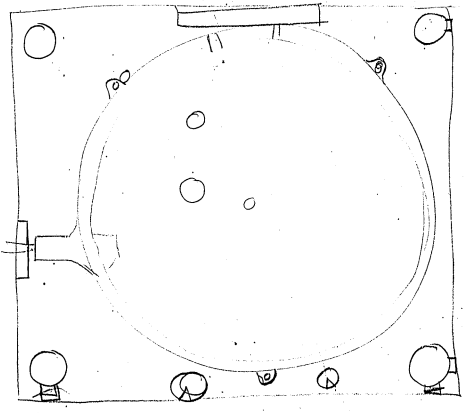


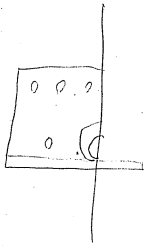


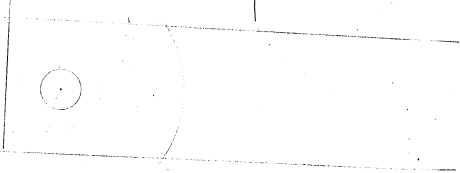

AUTOMATIC
GRAPH Co
Made by AMERICAN
Newark

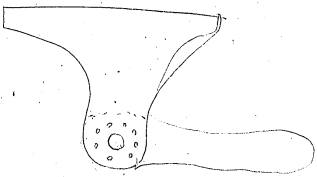
Thomas Hunt
Hunt's Point

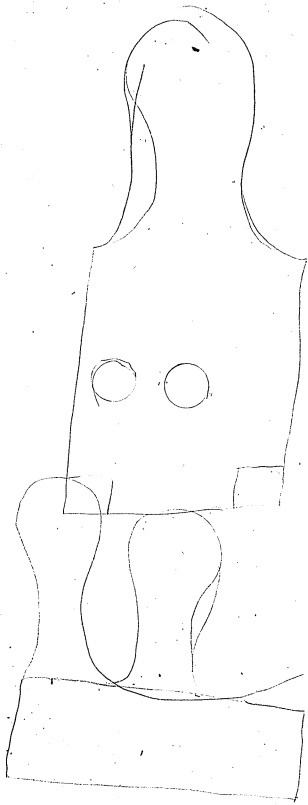


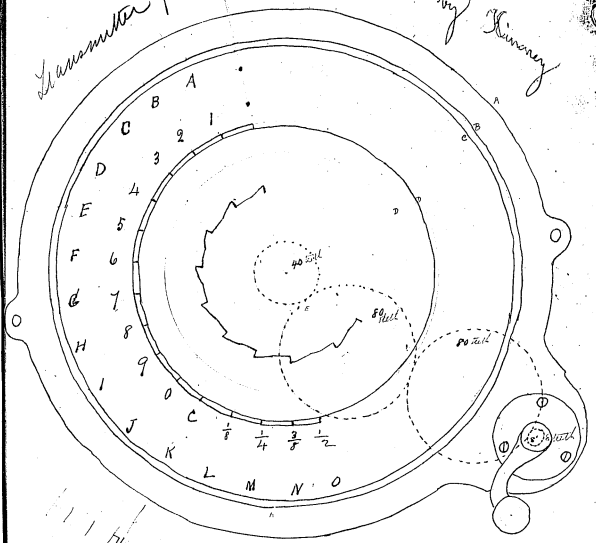


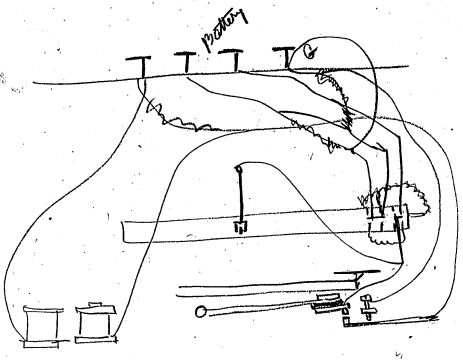
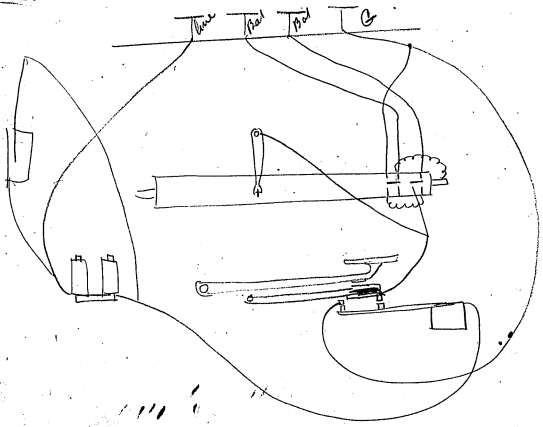
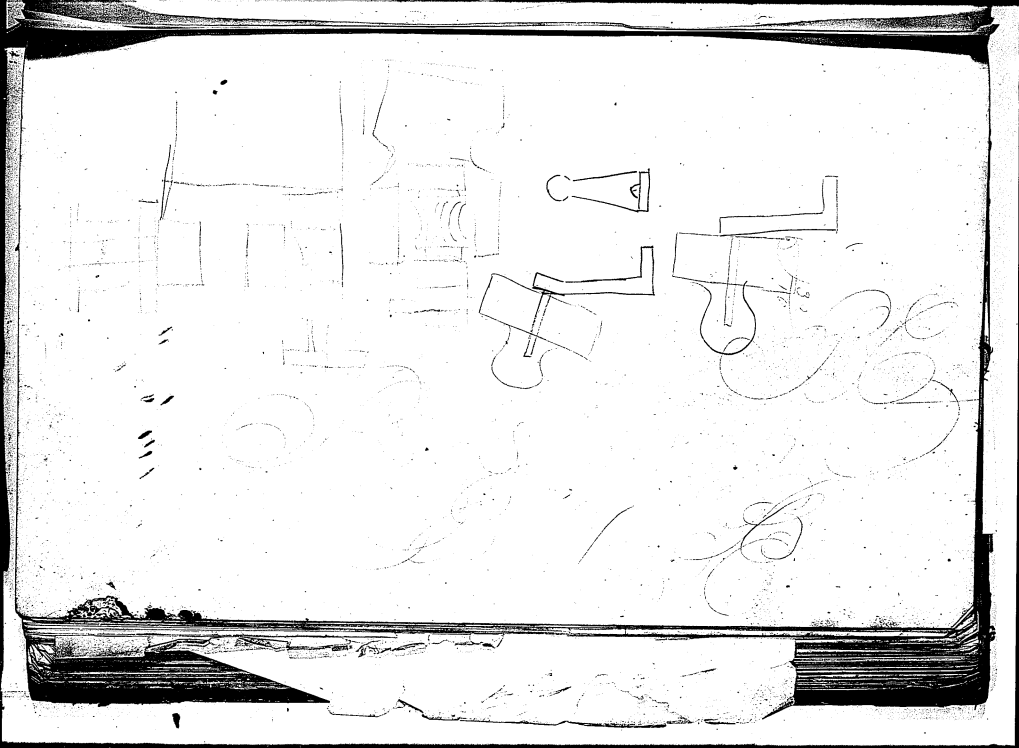
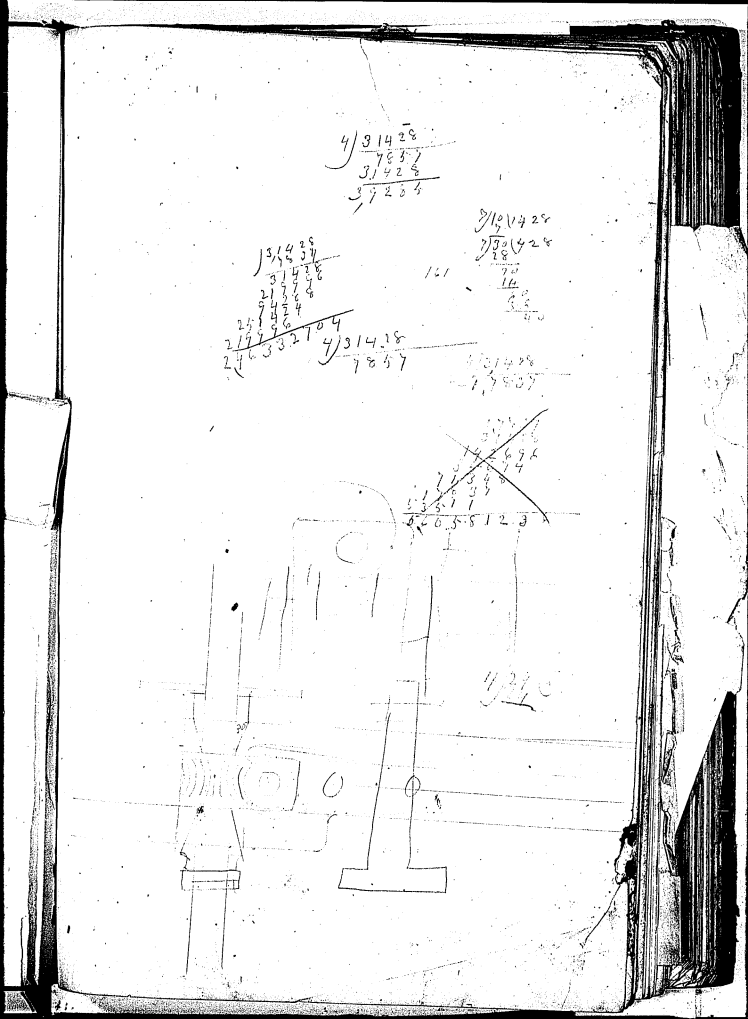
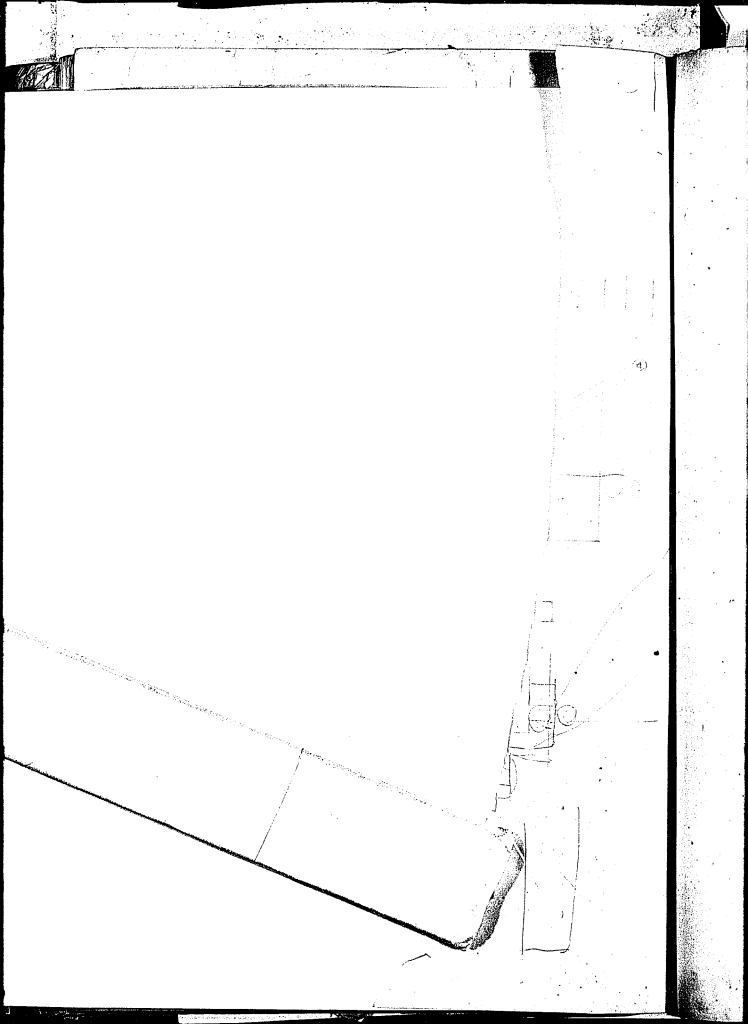
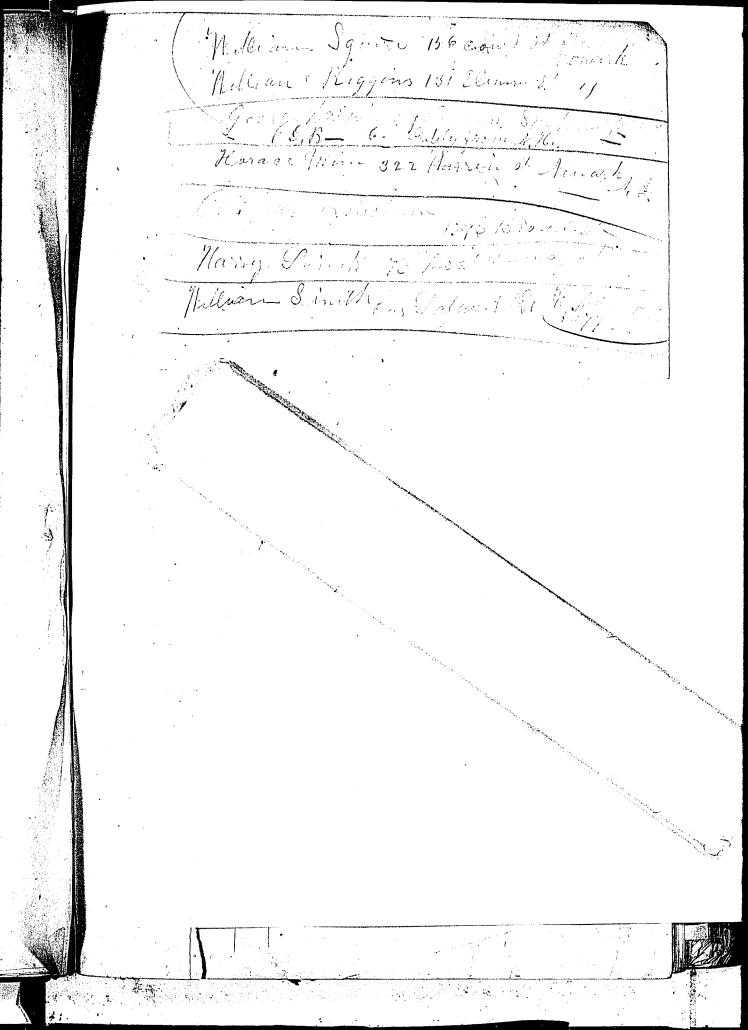
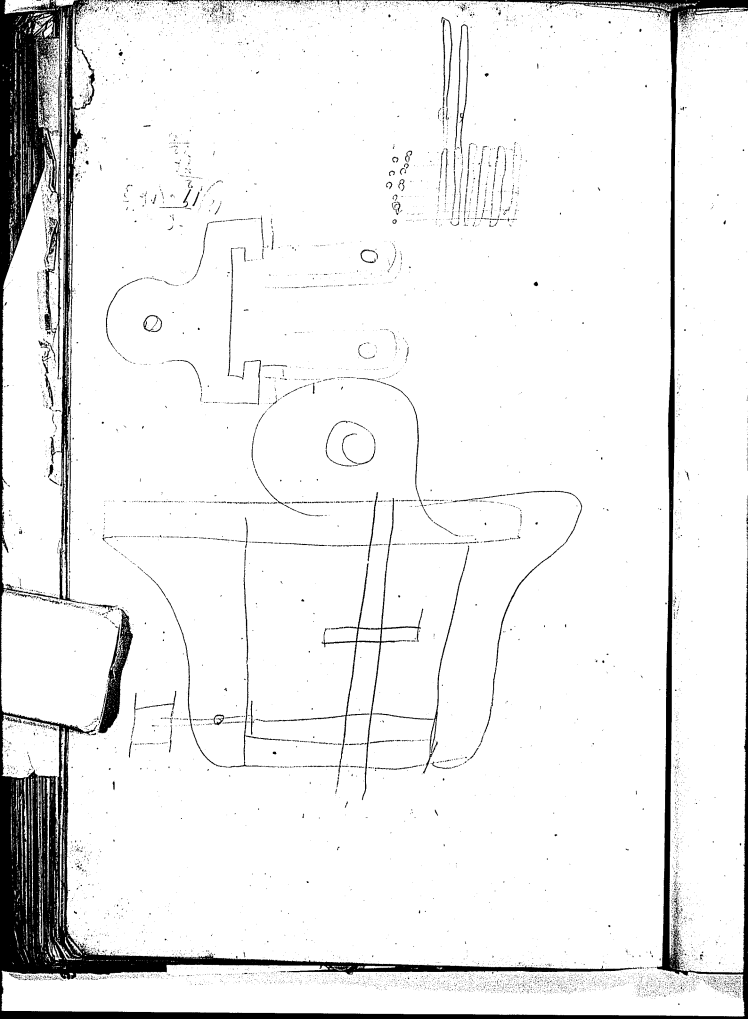
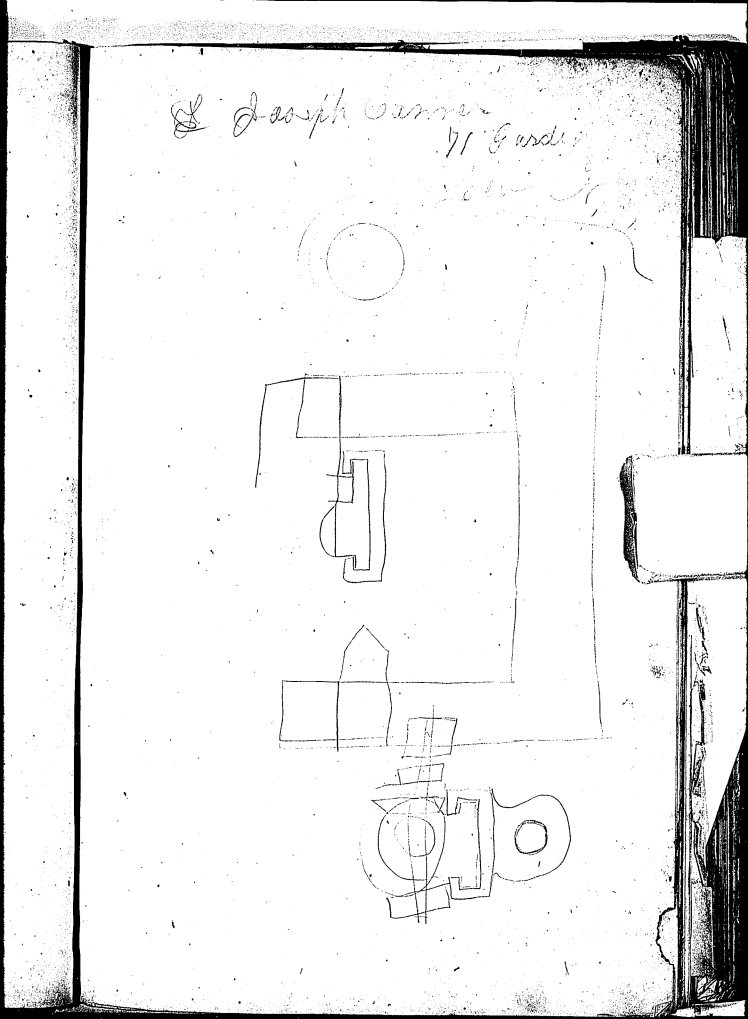
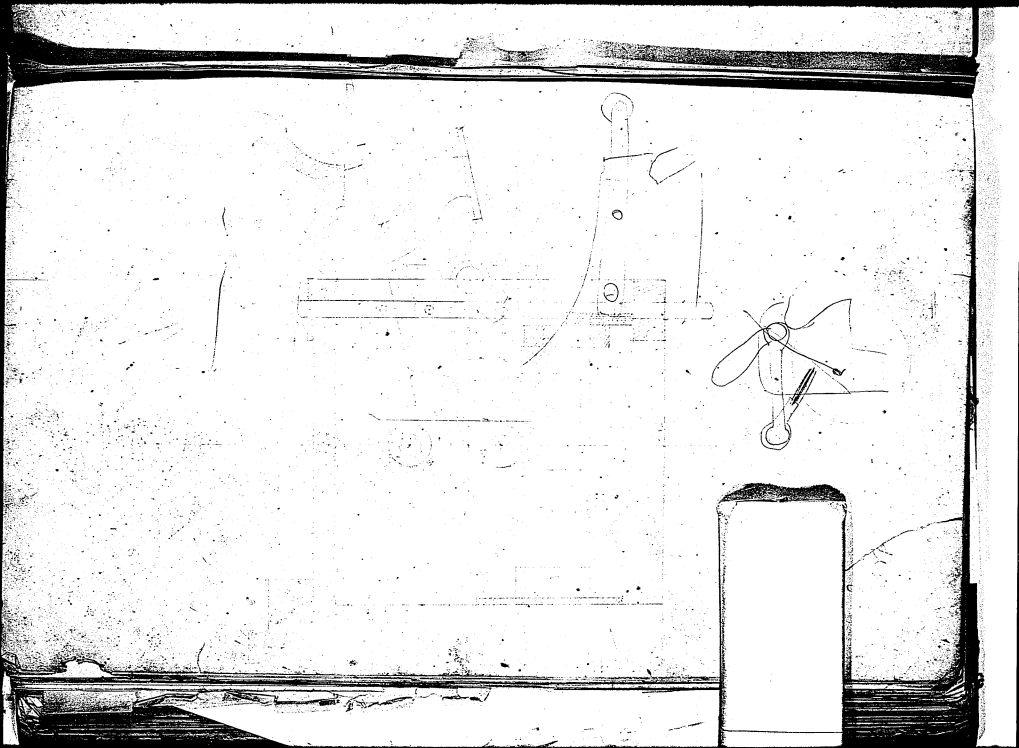
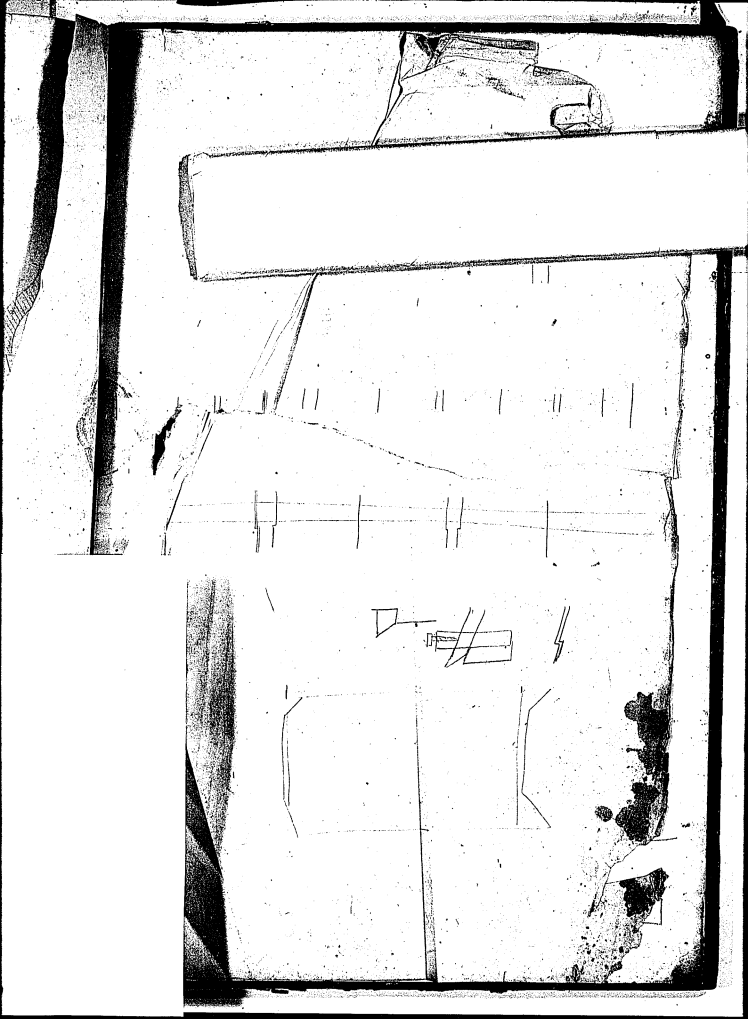
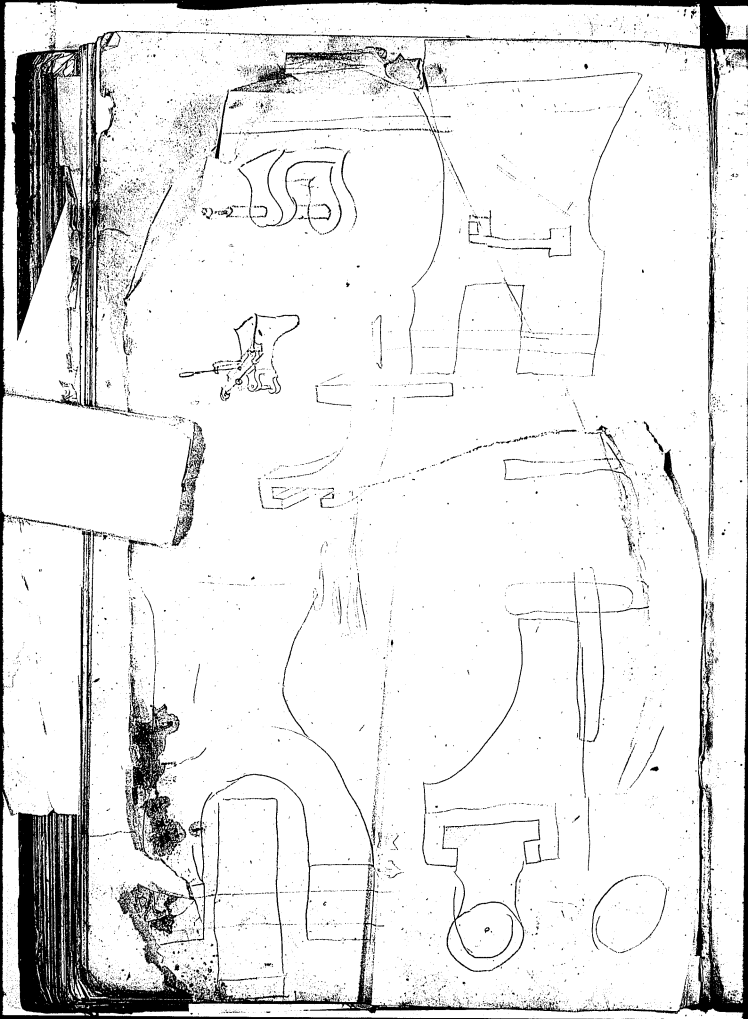







A
B- 5 3/4
C- 6 1/2 Ledge from Iron
D- 5 1/2 Cradge is Wide
E- 1 3/4 Between Centers
F 2 1/2 - -
G 1 1/8 - -
H
I
J
K
L
M


Instrument for Surveying. Made by Kinnersley
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7
8
9
0
90 feet
80 feet
70 feet
1/8
1/4
2/5
1/2


battery